

# EXHIBIT B

## PART 4

16512 (REV. 8-77)

Detach along this edge and return in the reply envelope.

SEARS

SEARS

Stanley Stasko

381-68-1710

8-23-79

Stanley R. Stasko  
 Fabrication of test devices 8-78 8-79  
 Summer job only

x  
 9/7/78 8/14/79  
 Co-op Student, then as Learner-Lab Aide  
 Special Separation - termination of  
 temporary summer employment \*\*

x  
 Yes Yes

No No

\*\*Previous to his temporary summer assignment, Mr. Stasko was a high school co-op student.

*E.M. Poppleton*  
 E. M. Poppleton, Staff Assistant  
 Tech Center Personnel Admin.

REQUEST FOR INFORMATION RELATIVE TO POSSIBLE  
INELIGIBILITY OR DISQUALIFICATION

TO: EMPLOYER G.M. ENGINEERING STAFF  
12 Mile & Mound  
NUMBER AND STREET  
Warren, MI  
CITY-STATE-ZIP CODE

RE: CLAIMANT STASKO, STANLEY  
S.S. No. 381 68 1710  
DEPT. and  
BADGE No.

The claim for unemployment benefits filed by this claimant is being investigated because of a possible ineligibility or disqualification. Please answer the specific question(s) listed below and in addition, furnish any pertinent information which you believe would be helpful in the proper disposition of the issue(s) involved. If necessary, use the reverse side of this form.

You are required to complete and return this form within seven days even though you are of the opinion that the claimant should not be disqualified. If a reply is not received within seven days, a determination will be made on the basis of available facts. One copy of this form may be retained for your files.

What was the reason for claimant's separation?

DATE 8/21/79 L. Lau/jf  
Month Day Year Employment and Claims Interviewer

EMPLOYER'S REPLY

Claimant's First Day Worked: 9-7-78 Last Day Worked: 8-14-79 Date of Removal From Payroll: 8-14-79

Reason for Claimant's Separation: Mr. Stasko was given a special separation at the conclusion of his  
(Please explain) temporary summer assignment and is planning on starting college. Previous to his  
temporary summer assignment, Mr. Stasko was a high-school co-op student.

Engineering Staff, General Motors Corporation

Employer's Name

By

Authorized Signature

Personnel Staff Assistant

Title

Date 8-28-79  
Month Day Year



# GENERAL MOTORS CORPORATION

## EMPLOYMENT OF SALARIED PERSONNEL

184

ALL CARDS		CISCO NO.	SOC. SECURITY NO.	DEPT. NO.	REQ. NO.	INCR.	REPL.
10001		381-68-1710	I-11	1289S	X		

UNIT Engineering Staff		LOCATION Warren, Michigan	
------------------------	--	---------------------------	--

CARD	PREFIX	FIRST NAME	MIDDLE NAME	LAST NAME	SUFFIX	BIRTHDATE	SERVICE DATE
A01	Mr.	Stanley	R.	Stasko		6-6-61	9-7-78

CARD	HOUSE NO.	STREET NAME & APT. NO.	CITY	ST.	ZIP
C02	4450	52nd	Detroit	MI	48210

CARD	STATUS CHANGE DATE	STATUS OF CHANGE	STATUS	SEX	MAR. STAT.	EXMPT. STAT.	CITIZEN	GROUP CONTROL	GENERAL LEDGER	SUB LEDGER	BURDEN CENTER	PAY. FREQ.
A03	9-7-78	HC	PS	M	S	N	I					

CARD	EFFECTIVE DATE	SALARY CHANGE AMOUNT	SALARY TYPE	SALARY CHANGE	GM POSITION CODE	LOCAL POSITION CODE	LOCATION	DEPT. NO.	GM STUD. YR.	SUPERVISOR	VISA TYPE	VETERAN	DIS. VET.	VIET. VET.	DIS. VIET. VET.	DISAD. YTH.	MESC. REF.	NAB REP.	HANDICAPPED	SUMMER	SOURCE	HIGHEST DEGREE	SUPPL. PYMNT.	AMOUNT
A04	9-7-78	\$15.01*	2E0(30)	2130	I-11	58	ES	3																

CARD	POSITION DATE EFFECTIVE	SALARY MINIMUM	SALARY MAXIMUM	POSITION TITLE
C05	9-7-78			Cooperative Student

FROM MO/DAY/YR	TO MO/DAY/YR	DIVISION AND LOCATION	POSITION	REASON FOR LEAVING
		None		

PREVIOUS EMPLOYMENT WITH GENERAL MOTORS	
SIGN YOUR NAME EXACTLY AS ABOVE	
APPROVED (NOT REQUIRED FOR GM TRANSFERS)	

INTERNAL ACTIVITY CODE	
9100	

CARD	EDUCATION EFFECT DATE	EDUC. LEVEL	COLLEGE	EDUCATION DEGREE YR.	COLLEGE MAJOR	COLLEGE MINOR
	6-1-78	11				

*Based on a 3.8 hour day	
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FROM MO/DAY/YR	TO MO/DAY/YR	DIVISION AND LOCATION	POSITION	REASON FOR LEAVING

March 1, 1983

Jann Dagg  
G.M. Tech. Center  
Personnel Placement  
Engineering North Bldg.  
Warren, Michigan 48090

Dear Ms. Dagg:

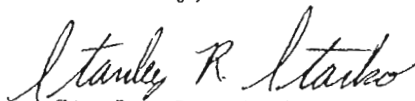
It has come to my attention, through the placement office at Lawrence Institute of Technology, that General Motors is looking for a few competitive students to work on engineering assignments during the summer of 1983. Please accept my resume as my application to this interesting and challenging program.

As my resume indicates, I am very interested in System Design and Development- the hardware and/or software aspects. And by June, 1983, I will have completed several courses, (see resume), which have helped me to prepare for my future career.

By June, 1983, I will be four courses short of my Electrical Engineering Degree- three Humanities and one Thermodynamics course. I feel the summer program at General Motors would be an excellent way for me to prove my skills in my field of interest.

If you have any further questions or if an interview can be arranged, please do not hesitate to call me at home anytime-(313) 842-7802.

Sincerely,

  
Stanley R. Stasko

May 10, 1983

Mr. Leo Perazza  
Personnel Placement  
Engineering Staff North  
G. M. Tech. Center  
Warren, Michigan 48090

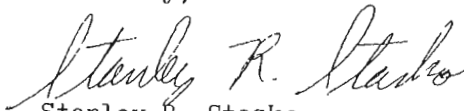
Dear Mr. Perazza:

It has come to my attention, by reading automotive journals, that General Motors is applying state-of-the-art technology (using Microprocessor controlled systems) in its products and its practices. I would like to become part of this interesting and challenging endeavor of General Motors.

While attending Lawrence Institute of Technology, I have concentrated my studies in Electrical Engineering- with a strong Math and Computer Science background. I am very much interested in System Design and Development pertaining to Microprocessors and/or Control Systems. By June 1983, I will have completed several courses in Digital Circuit Design, Electronic Circuit Design, Feedback Control Systems, Microprocessors, and several Computer Science courses in software programming. With this background, and my competitive spirit, I feel I can meet the challenges General Motors has to offer.

Please except my resume as my application to meet the challenges General Motors has to offer. If there is any other information that is needed, or if you have any questions, please contact me at home (842-7802).

Sincerely,

  
Stanley R. Stasko

Stanley R. Stasko  
4450 52nd. Street  
Detroit, Michigan 48210  
(313) 842-7802

Objective: Immediate Goal- Entry level work in System Design and Development.  
(Applied to Microprocessors and/or Control Systems)

Long Term Goal- Management position in System Design and Development.

Education: 1) Bachelor of Science in Electrical Engineering (Fall, 1983)  
2) Bachelor of Science in Math and Computer Science (June, 1984)  
Lawrence Institute of Technology  
G.P.A. in major field 3.75, overall 3.75 (A=4.00)

Qualifications: Courses completed by June, 1983:  
Microprocessors; Electronic Circuits 1, 2, and 3; Digital Circuit  
Design 1, 2; Feedback Control Systems 1; Computer Science 1, 2  
(Assembler, and Simulation and Analysis Techniques); Simulation  
Techniques.

Member of Tau Beta Pi (National Engineering Honor Society)

Work Experience: Berti Construction Co., Orlando, Florida  
Laborer (Local #517)  
Maintenance and preparation of exhibition displays in the World  
of Motion at the EPCOT Center.  
Full-time 6/82 to 9/82

Sears Roebuck and Co., Fairlane Town Center, Dearborn, Michigan  
Sales person in the Paint and Electrical Department.  
Part-time 8/79 to 5/82

General Motors Co., Engineering Staff, Warren, Michigan  
Fabrication and calibration of analog and relay controlled test  
equipment for emission tests.  
Part-time 9/78 to 6/79  
Full-time 6/79 to 9/79

Personal Data: Health: Excellent  
Willing to relocate

References: References and other information available upon request.



GM 1416  
5-76  
PRINTED U.S.A.

GENERAL MOTORS CORPORATION

APPLICATION FOR EMPLOYMENT

GENERAL MOTORS IS AN EQUAL OPPORTUNITY EMPLOYER

PRINT NAME IN FULL Stanley Staska (LAST) Robert (FIRST) Robert (MIDDLE) SOCIAL SECURITY NO. 381-68-1710

OTHER NAME(S), IF ANY, UNDER WHICH YOU HAVE WORKED OR ATTENDED SCHOOL \_\_\_\_\_

POSITION DESIRED: FIRST CHOICE Entry level work in System Design and Dev. YEARS EXPERIENCE \_\_\_\_\_

SECOND CHOICE Digital Circuit Design and/or Software Prog. YEARS EXPERIENCE \_\_\_\_\_

EMPLOYMENT DESIRED: PERMANENT ☒ TEMPORARY ☐ DATE AVAILABLE TO START WORK 7-18-83 WILLING TO WORK ANY SHIFT? YES ☒ NO ☐

PERSONAL DATA

PRESENT ADDRESS 4450 Sigma Street (STREET ADDRESS) Detroit (CITY) Michigan (STATE) 48210 (ZIP CODE) TELEPHONE NO. 842-7802

PERMANENT ADDRESS Same as Above (STREET ADDRESS) \_\_\_\_\_ (CITY) \_\_\_\_\_ (STATE) \_\_\_\_\_ (ZIP CODE) TELEPHONE NO. \_\_\_\_\_ ALTERNATE TELEPHONE NO. \_\_\_\_\_

ARE YOU A CITIZEN OF THE UNITED STATES? yes IF YOU ARE NOT A U.S. CITIZEN, DO YOU HAVE THE LEGAL RIGHT TO REMAIN PERMANENTLY IN THE U.S.? \_\_\_\_\_

HAVE YOU EVER BEEN CONVICTED OF A MISDEMEANOR OR FELONY? YES \_\_\_\_\_ NO ☒ IF SO, COMPLETE THE FOLLOWING: (Do Not Include Minor Traffic Violations)

DATE \_\_\_\_\_ OFFENSE \_\_\_\_\_ PLACE \_\_\_\_\_ DISPOSITION \_\_\_\_\_

BRANCH OF SERVICE N/A FROM \_\_\_\_\_ TO \_\_\_\_\_ RANK OR RATING \_\_\_\_\_ TYPE OF DISCHARGE \_\_\_\_\_ U.S. MILITARY SERVICE  
Filed 12/11/09

EDUCATION

INSTITUTION	NAME AND LOCATION OF SCHOOL	NO. OF YEARS ATTENDED	MAJOR FIELD OF STUDY	DEGREES AWARDED
HIGH SCHOOL	<u>Cass Technical</u> <u>Detroit, Michigan</u>	<u>3</u>	<u>Electronics</u>	<u>Dip.</u>
COLLEGE	<u>Lawrence Institute of Technology</u> <u>Southfield, Michigan</u>	<u>4</u>	<u>Electrical Engineering</u>	<u>B.A.</u>
OTHER TRAINING	_____	_____	_____	<u>x x x</u>
_____	_____	_____	_____	<u>x x x</u>



## EXPER :E

HAVE YOU EVER WORKED FOR GENERAL MOTORS? YES ☒ NO ☐

(PLEASE LIST ALL PREVIOUS EMPLOYMENT AND BEGIN BY LISTING YOUR LAST OR PRESENT EMPLOYMENT FIRST)

EMPL. DATES FROM TO	COMPANY NAME AND LOCATION	POSITION	WAGE OR SALARY	STATE DUTIES CLEARLY AND BRIEFLY	REASON FOR LEAVING
6-82 9-82	Berti Construction Co. Ocala, Florida	Laborer	\$7.90/hr	Maintenance and preparation of exhibition displays	School started in Fall
8-79 5-82	Seals Backus & Co. Dearborn, Mich.	Sales Clerk	\$4.05/hr	Sales of paint and electrical goods	Opportunities in Florida
8-78 9-79	General Motors Co. F.S. Warren, Michigan	Field Tech.	\$4.05/hr	Fabrication and calibration of test equipment	School started in Fall

IN APPLYING HERE FOR EMPLOYMENT IT IS UNDERSTOOD GENERAL MOTORS RESERVES THE PRIVILEGE OF CONTACTING PAST EMPLOYERS REGARDING REFERENCES. MAY WE ALSO CONTACT YOUR PRESENT EMPLOYER AT THIS TIME? YES ☒ NO ☐

ARE THERE ANY ADDITIONAL COMMENTS YOU WOULD CARE TO MAKE REGARDING YOUR EXPERIENCE OR SPECIAL SKILLS?

NONE

WHY ARE YOU INTERESTED IN EMPLOYMENT WITH GENERAL MOTORS?

Interested in applying state-of-the-art technology in System Design and Development

WHAT DO YOU CONSIDER YOUR GREATEST QUALIFICATIONS?

- 1) Ability to work with others effectively
- 2) Work often on all assigned tasks
- 3) Competitive Spirit

I HEREBY REPRESENT THAT EACH ANSWER TO A QUESTION HEREIN AND ALL OTHER INFORMATION OTHERWISE FURNISHED IS TRUE AND CORRECT. I FURTHER REPRESENT THAT SUCH ANSWERS AND INFORMATION CONSTITUTE A FULL AND COMPLETE DISCLOSURE OF MY KNOWLEDGE WITH RESPECT TO THE QUESTION OR SUBJECT TO WHICH THE ANSWER OR INFORMATION RELATES. I UNDERSTAND THAT ANY INCORRECT, INCOMPLETE, OR FALSE STATEMENT OR INFORMATION FURNISHED BY ME WILL SUBJECT ME TO DISCHARGE AT ANY TIME. IN THE EVENT THAT I AM EMPLOYED BY GENERAL MOTORS, I AGREE TO COMPLY WITH ALL OF ITS ORDERS, RULES AND REGULATIONS. I HEREBY AUTHORIZE MY FORMER EMPLOYERS TO GIVE ANY INFORMATION REGARDING MY EMPLOYMENT WITH THEM, AND IN ADDITION, TO FURNISH ANY OTHER INFORMATION THEY MAY HAVE CONCERNING ME.

APPLICANT'S SIGNATURE

Stanley R. Stanko

DATE

6-2-83

(THIS APPLICATION WILL BE RETAINED FOR ONE YEAR FROM DATE FILED).

RECORD OF APPLICATION, REFERRALS, DISPOSITION, ETC.

DATE INTERVIEWED

INTERVIEWER

L. Ghofulpo

33

June 15, 1983

Mr. Stanley R. Stasko  
4450 52nd Street  
Detroit, MI 48210

Dear Mr. Stasko:

This comes as a follow-up of our phone conversation during which I extended to you an invitation to join the professional staff of our Advanced Product and Manufacturing Engineering Staff.

Everyone with whom you spoke is most enthused about the prospects of your joining us. It is felt that you can make an outstanding contribution to our efforts. In turn, I know that Advanced Product and Manufacturing Engineering Staff would provide you with a working environment you would find both stimulating and rewarding. Should you accept our invitation you would be classified as an Associate Engineer and receive compensation at the rate of \$28,000.00 per annum. This includes a base salary and the Cost of Living Allowance (COLA) that prevails at the time you report.

Salary is certainly important. However, it does not represent the total compensation one receives as a member of the General Motors family. I'm speaking, of course, of our excellent benefit program as outlined in the benefit booklet. One not mentioned in the booklet is your opportunity to purchase a General Motors automobile at dealer cost as soon as you come on the payroll.

Both personally and professionally, I hope you find the above acceptable in that I am certain it would lead to a long and mutually profitable association. If you have any questions, please do not hesitate to call me at 575-8007.

Sincerely,

Larry E. Ott  
Staffing Representative

LEO:yd

4450 52nd Street  
Detroit, Michigan 48210

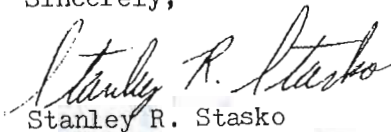
Mr. Larry E. Ott  
Technical Staffs Personnel  
General Motors Corporation  
General Motors Technical Center  
Warren, Michigan 48090

Dear Mr. Ott:

I am very pleased to accept your offer of Associate Engineer as outlined in your letter of June 15, 1983. I realize I must first pass the physical examination on my first day of work on July 18, 1983, and I will receive a compensation rate of \$28,000.00 per annum.

I look forward to meeting the challenges the Advanced Product and Manufacturing Engineering Staff has to offer, and I shall make every attempt to fulfill your expectations.

Sincerely,

  
Stanley R. Stasko



# GENERAL MOTORS CORPORATION

## EMPLOYMENT OF SALARIED PERSONNEL

H79 COLS 73-79 313 842-7802

ALL CARDS	CISCO NO.	SOC. SECURITY NO.	DEPT. NO.	REQ. NO.	INCR.	REPL.
	10001	381-68-1710	F161	M-1210S	X	

CARD	PREFIX	FIRST NAME	MIDDLE NAME	LAST NAME	SUFFIX	BIRTHDATE	SERVICE DATE
A 01	Mr.	Stanley	R.	Stanko		06-06-61	07-18-83

CARD	HOUSE NO.	STREET NAME & APT. NO.	CITY	ST.	ZIP	CARD	SUPPL. PYMT.	AMOUNT
C 02	4450	52nd Street	Detroit	MI	48210	C 07		

CARD	STATUS CHANGE DATE	STATUS OF EMPLOYMENT	SEX	MAR. STAT.	CITIZEN	GROUP CONTROL	GENERAL LEDGER	SUB LEDGER	BURDEN CENTER	PAY. FREQ.
A 03	07-18-83	HN	RA	M	S	N	I	AP	9400	

CARD	EFFECTIVE DATE	SALARY CHANGE AMOUNT	SALARY CHANGE TYPE	SALARY MONTHLY BASE	GM POSITION CODE	LOCAL POSITION CODE	LOCATION	DEPT. NO.	GM STUD. YR.	SUPERVISOR	AREA OF WORK	AAP REP. CODE	MINORITY GP.
A 04	07-18-83			\$1,950.00	5E35		2130	F161			03	MD	2

CARD	POSITION DATE EFFECTIVE	SALARY MINIMUM	SALARY MAXIMUM	POSITION TITLE
C 05	07-18-83			Associate Engineer

FROM MO/DAY/YR	TO MO/DAY/YR	DIVISION AND LOCATION	POSITION	REASON FOR LEAVING
9-7-78	8-14-79	Engineering Staff	Technician	Special Separation

SIGN YOUR NAME EXACTLY AS ABOVE

*Stanley R. Stanko*

APPROVED (NOT REQUIRED FOR GM TRANSFERS)

*Stanley R. Stanko*

WHITE - EMPLOYEE FILE (VIA SAS) YELLOW - LOCAL UNIT BLUE - ADVANCE COPY PINK - EMPLOYMENT

INTERNAL ACTIVITY CODE

9L98

Pg 12 of 110

Case 2:09-cv-01482-JAC-VMM Document 3 Filed 12/17/09 Page 18



E002  
-76Case 2:09-cv-14827-JAC Document 3-3 Filed 12/11/09 Page 19 of 39  
(Pls. Print)Name Stanley Robert Stasko Soc. Security No. 381-68-1716 SINGLE ☒Address 4450 52<sup>ND</sup> Street City, State, Zip Detroit, Mich. 48210 MARRIED ☐Phone No. 842-7802 Date and Place of Birth Detroit 6-6-61 SEPARATED ☐  
(Must furnish a copy of birth certificate)If not a citizen of the United States: \_\_\_\_\_ DIVORCED ☐  
Alien Reg. No. \_\_\_\_\_ Date and Place Issued: \_\_\_\_\_

Name, relationship and phone number of person to notify in case of emergency:

Sophie Stasko 4450 52<sup>ND</sup> Detroit, Michigan 48210

## (PLEASE FURNISH A COPY OF COLLEGE TRANSCRIPT)

Education: (List all educational training) Name and Location of School	Course Program	Date Graduated	Degree Obtained	No. Years Attended
<u>Lawrence Inst. of Tech.</u>	<u>Electrical Engineering</u>	<u>7-15-83</u>	<u>Bachelor</u>	<u>4</u>

Are you a Registered Engineer? Yes ☐ No ☒ Year \_\_\_\_\_ State \_\_\_\_\_

List eligible dependents for health insurance coverage: (If additional space required use reverse side)

Name	Soc. Security No.	Birth Date	Relationship

\*\* If covered under spouse's insurance, list place of employment of spouse \_\_\_\_\_

and name of Insurance Company \_\_\_\_\_

Please designate beneficiary for Metropolitan Group Life Insurance.

Name Sophie Stasko Age 62 Relationship Mother Address 4450 52<sup>ND</sup> Detroit 48210TRANSFERS FROM OTHER GM DIVISIONS PLEASE ANSWER THE FOLLOWING QUESTIONS:  
(also includes employees who have had former employment with a GM division)

Were you actively participating in the following programs at the time of transfer or layoff?

Blue Cross/Blue Shield \_\_\_\_\_ Comprehensive Medical \_\_\_\_\_ Metropolitan Optional Life \_\_\_\_\_ Dependent Group Life \_\_\_\_\_  
Stock Purchase Program \_\_\_\_\_ Retirement Program \_\_\_\_\_ Series "E" Savings Bonds \_\_\_\_\_ Dental \_\_\_\_\_

## LIST ALL PREVIOUS EMPLOYMENT WITH GENERAL MOTORS (If additional space required use reverse side)

From Mo/Day/Yr	To Mo/Day/Yr	Division & Location	Position	Reason for Leaving
<u>9-7-78</u>	<u>8-14-79</u>	<u>Engineering Staff Tech. Center Warren</u>	<u>Facility Tech</u>	<u>Special Separation</u>

Vacation days used this calendar year \_\_\_\_\_ Vacation days left \_\_\_\_\_

Date 7-18-83 Signed Stanley R. Stasko

APMES

## ACCTG/PERSONNEL RECORD CHANGE

TO: T. PERKINS  
APMES FINANCENEW ENTRY ☒  
REVISION ☐EFFECTIVE DATE 07-18-83LENGTH OF SERVICE DATE 07-18-83EMPLOYEE NAME STANLEY R STASKOSS NUMBER 381-68-1710STATUS OF EMPLOYMENT: New Hire ☒Xfer In ☐Co-op Std ☐Temp ☐DEPARTMENT F161LOCATION: Warren ☒ Detroit ☐EXEMPT ☐NON-EXEMPT ☒

=====

VACATION - ALLOWED HOURS 0VACATION - TAKEN HOURS           VAC ELIGIBILITY  
DATE80 hrs 1-1-84

=====

TIME CARDS TO BE USED ☒PER DIEM SLIPS (YELLOW) TO BE USED           C. J. P. 7-20-83  
Personnel Departmentcc: File  
H. Helton



Personnel Administration  
General Motors Corporation  
General Motors Technical Center  
Warren, Michigan 48090

Date: July 20, 1983

Subject: Length of Service

To: Stanley Stasko

You will recall in your new employee orientation, I indicated I would write you a note regarding your prior employment as a high school cooperative student as it might relate to backdating your length of service.

Section 307.214 of the Policy Manual indicates that only time worked that is at least one-half of the staff's normal workweek can be included in length of service. High School cooperative students work less than 20 hours per week.

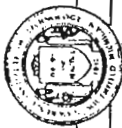
I noticed that you also worked the period of time during the summer on a full time basis. This same section of the policy also indicates you can only consider periods of employment one year back from the time a person is hired "permanently". Your period of employment 9/78 to 8/79 is well beyond a year so we will not be able to consider your full time summer employee status in your length of service.

Sorry that the policy does not allow us to backdate your length of service, but it was sure worth the look.

Best of luck on your new assignment.

Cheryl J. Pasike  
Personnel Specialist

# LAWRENCE INSTITUTE OF TECHNOLOGY



SOUTHFIELD, MICHIGAN 48075

49447 BACCALAUREATE DEGREE PROGRAM

STUDENT NUMBER

49447

SCHOOL  
CURR  
BIRTH DATE  
CITIZENSHIP (OTHER THAN U.S.)  
DATE OF GRAD FROM HS  
LAST COLLEGE ATTENDED  
L.I.T. DEGREES GRANTED

ENGINEERING  
ELECTRICAL  
6-6-61  
6-79  
CASS TECHNICAL HIGH

NAME

ADDRESS

WHEN  
FIRST  
ENROLLED

STANLEY R STASKO  
4450 52ND  
DETROIT MI  
48210

DESCRIPTION TITLE	COURSE NO.	BASE HOURS	CREDIT HOURS	GRADE	HONOR POINTS	FILE NO.	DESCRIPTIVE TITLE	COURSE NO.	BASE HOURS	CREDIT HOURS	GRADE	HONOR POINTS	FILE NO.
DAY TERM ENDING GEN CHEMISTRY I ANAL GEO & VECTR INTRO ENGINEERING Dean's Honor Roll 49447	NOV 79 30.205 32.145 45.103	5 5 3 13 13	5 5 3 13 13	A A A A A	20 20 12 52 52	816 799 1367 4.00	DAY TERM ENDING PHYSICS ELEC MAG ELECT MEAS CRCTS DIFFER EQUATIONS Dean's Honor Roll 49447	MAY 81 34.245 41.213 32.445	5 3 5 13 84	5 3 5 13 84	A A A A A	20 12 20 52 324	794 707 746 3.85
DAY TERM ENDING GEN CHEMISTRY 2 CALCULUS I ENGR GRAPHICS Dean's Honor Roll 49447	FEB 80 30.225 32.265 45.214	5 5 4 14 27	5 5 4 14 27	A A C A A	20 20 8 48 100	816 799 1337 3.70	DAY TERM ENDING OPERATIONAL MATH MICROECONOMICS CIRCUITS 1 SIMULATION TECH Dean's Honor Roll 49447	NOV 81 32.605 38.343 41.224 41.643	5 3 4 3 15	5 3 4 3 15	A A A A A	20 12 16 12 60	171 1495 1496 4699
DAY TERM ENDING CALCULUS II ENGLISH COMP ENGR MATERIALS 1 Dean's Honor Roll 49447	MAY 80 32.285 36.214 45.365	5 4 5 14 41	5 4 5 14 41	A B A A A	20 12 20 52 152	799 806 1279 3.70	DAY TERM ENDING LIT 1 PROSE CIRCUITS 2 ELECTRONICS 1 ELECTO THEORY 1 Dean's Honor Roll 49447	FEB 82 36.243 41.264 41.265 41.313	3 4 5 3 15	3 4 5 3 15	B B B A A	9 12 15 12 48	1262 1496 1528 794
DAY TERM ENDING CALCULUS III PHYSICS MECHANIC EFFECTIVE SPEECH Dean's Honor Roll 49447	NOV 80 32.305 34.205 36.553	5 5 3 13 54	5 5 3 13 54	A A A A A	20 20 12 52 204	799 1230 1389 3.77	DAY TERM ENDING COMPUTER TECH 3 ELECTRONICS 2 ELECTO THEORY 2 TRANSMISSION LINE Dean's Honor Roll 49447	MAY 82 32.273 41.365 41.463 41.553	3 5 3 3 14	3 5 3 3 14	A A A A A	12 20 12 12 56	606 1539 794 1496
DAY TERM ENDING COMPUTER 2 FORT CALCULUS IV PHYSICS HT SD LT MECH 1 STATICS Dean's Honor Roll 49447	FEB 81 32.263 32.325 34.225 45.384	3 5 5 4 17 71	3 5 5 4 17 71	A A A A A	12 20 20 16 68 272	606 799 794 115 3.63	DAY TERM ENDING EVE BUSINESS WRITING BUSINESS WRITING Dean's Honor Roll 49447	MAY 82 36.423 36.423	3 3 131 151	3 3 131 151	C C C C	6 6 494 494	1364 1364 3.77

ISSUED TO STUDENT

*Barbara M. Buck*

1 AUG 5 1983

ALL GRADUATES IN STANDARD QUARTER HOURS  
GRADING SYSTEM (On each Grade Honor Point)

EXCELLENT A, 4

GOOD B, 3

AVERAGE C, 2

POOR D, 1

FAILURE, F, 0

REGISTRAR

INCOMPLETE, I, 0

WITHDRAWAL, W, 0

AUDIT, X, 0

DATE



DESCRIPTIVE TITLE	COURSE NO.	DESCRIPTIVE TITLE	COURSE NO.	BASE HOURS	CREDIT HOURS	HONOR POINTS	FILE NO.
DAY TERM ENDING	NOV 82	DAY TERM ENDING	NOV 82	5	5	20	606
COMPUTER SCI 1	32.425	COMPUTER SCI 1	32.425	5	5	12	1263
INTRO PSYCHOLOGY	38.563	INTRO PSYCHOLOGY	38.563	5	5	20	1496
ELECTRON DEVIC 1	41.305	ELECTRON DEVIC 1	41.305	5	5	20	469
FEEDBACK CTR SYS 1	41.595	FEEDBACK CTR SYS 1	41.595	18	18	72	3.79
49447 149		49447 149		149	149	566	
DAY TERM ENDING	FEB 83	DAY TERM ENDING	FEB 83	5	5	20	171
MATRIX ALGEBRA	32.565	MATRIX ALGEBRA	32.565	3	3	12	1234
DGTL CIR DES 1	41.783	DGTL CIR DES 1	41.783	5	5	20	1234
ELECTRONICS 3	41.875	ELECTRONICS 3	41.875	5	5	20	115
MECH OF MATRLS	45.445	MECH OF MATRLS	45.445	18	18	72	3.82
Dean's Honor Roll		Dean's Honor Roll		167	167	638	
49447 167		49447 167					
DAY TERM ENDING	MAY 83	DAY TERM ENDING	MAY 83	3	3	12	606
COMPUTER SCI 2	32.513	COMPUTER SCI 2	32.513	3	3	12	1385
LIT 2 POET-DRAMA	36.273	LIT 2 POET-DRAMA	36.273	4	4	16	1234
MICROPROCESSORS	41.794	MICROPROCESSORS	41.794	3	3	12	1234
DIGITAL COMP 2	41.813	DIGITAL COMP 2	41.813	4	4	16	115
MECH 2 DYNAMICS	45.414	MECH 2 DYNAMICS	45.414	17	17	68	3.83
Dean's Honor Roll		Dean's Honor Roll		184	184	706	
49447 184		49447 184					
DAY TERM ENDING	JUL 83	DAY TERM ENDING	JUL 83	3	3	12	1126
STATE & LOC GOVT	38.543	STATE & LOC GOVT	38.543	3	3	9	1263
ABNORMAL PSYCH	38.633	ABNORMAL PSYCH	38.633	3	3	12	1460
INTRO SOCIOLOGY	38.663	INTRO SOCIOLOGY	38.663	4	4	12	1542
THERMODYNAMICS	45.544	THERMODYNAMICS	45.544	13	13	45	3.81
49447 197		49447 197		197	197	751	

SUED TO STUDENT

LAWRENCE INSTITUTE OF TECHNOLOGY

SOUTHFIELD, MICHIGAN 48075

EXHIBIT A

EXIT INTERVIEW

Employee Name STANLEY R. STASKO  
Position Code 7E06  
Service Date 7/18/83  
Social Security Number 381-68-1710  
PER Unit \_\_\_\_\_  
Department WH213  
Supervisor JERRY FAIRBANKS

1. To what degree was your decision to leave this organization influenced by any of the following? Please check all that apply.

\_\_\_\_\_ geographic relocation  
\_\_\_\_\_ returning to school  
\_\_\_\_\_ family circumstances  
\_\_\_\_\_ retirement  
\_\_\_\_\_ health reasons  
\_\_\_\_\_ dissatisfaction with:  
\_\_\_\_\_ working conditions (elaborate)  
\_\_\_\_\_ salary  
\_\_\_\_\_ quality of management  
\_\_\_\_\_ career advancement  
\_\_\_\_\_ under-utilized in area of expertise  
4 other (please specify) I AM ENTERING THE SEMI

Use the following scale:

- 1 - No Influence  
2 - Minor Influence  
3 - Major Influence  
4 - Primary Influence

FOR THE ARCH. OF DETROIT  
TO DISCERN THE CALL TO BE A PRIEST.

2. Please indicate your (dis/)agreement with the following, using the following scale:

- 1 - Strongly Agree  
2 - Agree  
3 - Neither Agree or Disagree  
4 - Disagree  
5 - Strongly Disagree

2 There is a high degree of cooperation within my department.  
2 There is a high degree of cooperation between my department and other departments.  
2 The training I received from the Corporation adequately prepared me for my job.  
2 Communication within my department was not a barrier to my work.

3. What is your level of satisfaction with the following?

- 1 - Greatly Satisfied  
2 - Satisfied  
3 - Neither Satisfied or Dissatisfied  
4 - Dissatisfied  
5 - Greatly Dissatisfied

2 Salary  
2 Opportunity for Advancement  
2 Equipment Provided  
2 Career Development

1 Benefits  
1 Job Security  
2 Mentoring/Supervision  
2 General Management

EXHIBIT AEXIT INTERVIEW - PG. 2

- 4(a) If you are taking another job, what does that job offer you that your job at GM did not?

NOT APPLICABLE - I AM ENTERING THE SEMINARY  
FOR THE ARCH. OF DETROIT; THEREFORE, I DON'T BELIEVE  
THIS QUESTION APPLIES TO ME.

- (b) Did GM meet your expectations? If not, please provide specific areas in which your expectations were not met.

YES, I VERY MUCH ENJOYED MY CAREER AT GENERAL  
MOTORS. OVERALL, IT WAS A VERY GOOD CAREER.

- (c) What constructive comments do you have for management in regard to continuously improving the workplace?

- (d) What are some factors which made your employment at GM a positive experience?

DURING MY CAREER AT GM, MY (2) MANAGERS (WARD  
WIERS AND JERRY FAIRBANKS) HAVE GAVE ME MANY  
OPPORTUNITIES TO EXPRESS MY ENGINEERING TALENTS.

- (e) Additional comments:

THANK-YOU FOR THE ENJOYABLE CAREER.

5. Please describe your future career plans/goals.

AT THIS TIME I AM DISCERNING THE CALL TO BE A  
PRIEST; THEREFORE, MY FUTURE PLANS/GOALS WILL  
BE DETERMINED AS THAT DISCERNMENT PROCESS UNFOLDS.

Interviewed by:

James A Fairbank

Date:

8-25-95

Employee signature:

Stanley A. Fairbank

Willing to participate in a follow-up survey? YES (Y/N)

Address:

27653 LEXINGTON PKWY  
SOUTHFIELD, MICH. 48076

EXHIBIT B

SECURITY TERMINATION STATEMENT

At the request of GM Powertrain, General Motors Corporation, I have returned all secret or confidential information in documentary or other tangible form, including copies or reproductions, in my possession or under my control and I agree that the obligation not to disclose secret or confidential information continues after the termination of my employment and that I shall not make any disclosure at any time thereafter without prior written permission of GM Powertrain, General Motors Corporation, except as I may be required to make such disclosure by judicial process or operation of law.

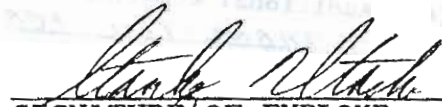
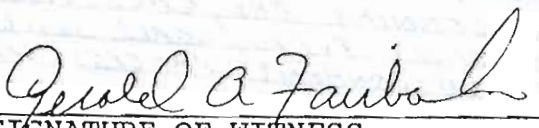
8-25-95  
DATE  
SIGNATURE OF EMPLOYEE  
SIGNATURE OF WITNESSSTANLEY R. STASKO  
TYPED NAME OF EMPLOYEEGERALD A. FAIRBANKS  
TYPED NAME OF WITNESS381-68-1710  
SOCIAL SECURITY NUMBER539-30-4875  
SOCIAL SECURITY NUMBER



EXHIBIT A

SALARIED PERSONNEL EXIT INTERVIEW

SS# 381-68-1710  
NAME STANLEY A. STASKO DATE 8/25/95  
ADDRESS 27653 LEXINGTON PKWY ZIP CODE 48076  
HOME TELEPHONE NO. (810) 552-0476 SERVICE DATE 7/18/83  
CLASSIFICATION 7E06 DEPARTMENT WH 213  
EFFECTIVE DATE 8/25/95 LAST DAY WORKED 8/25/95  
REASON FOR LEAVING I AM ENTERING THE SEMINARY FOR THE  
ARCH. OF DETROIT

ITEMS TO BE COLLECTEDAMOUNTS OWEDGMAC CARD N/AAMEX NOTE RECEIVABLE/  
DELINQUENT ACCOUNT \$ 0

KEYS/TOOLS \_\_\_\_\_

GM FELLOWSHIP EXPENSE \$ 0

GM PASS \_\_\_\_\_

GM FELLOWSHIP LOAN \$ 0EDS RELATED ITEMS:GM HOUSE LOAN \$ 0TRAVELCALL SERVICE CARD  
SYSTEM USER ID'S (LIST ALL) \_\_\_\_\_GM TUITION ASSISTANCE  
(BEFORE COURSE COMPLETION) \$ 0

- PC SOFTWARE/PC KEYS \_\_\_\_\_

CASH ADVANCE \$ 0

- LAPTOP (PORTABLE COMPUTER) \_\_\_\_\_

LUMP SUM RELOCATION ALLOW. \$ 0

- CELLULAR TELEPHONE \_\_\_\_\_

SALARY/VACATION OVERPAYMENT \$ \_\_\_\_\_

PERTINENT COMMENTS BY EMPLOYEE AND/OR INTERVIEWER:SIGNATURE OF INTERVIEWER: Gerald A Fairbanks

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SSN-----&gt; 381681710

NAME-----: STASKO, STANLEY, R

HIRED-----: 09/07/78

EFFECTIVE DATE-: 08/25/95

LENGTH OF SERVICE DATE-: 07/18/83

\*\*\*\*\* STATUS AS OF: 08/25/95 \*\*\*\*\*

STATUS ACTION--: 1J

QUIT-CAREER CHANGE

EMP CATEGORY---: SE

SEPARATED

\*\*\*\*\* POSITION AS OF: 01/01/95 \*\*\*\*\*

POSITION ACTION: D8

CHG-REORG/ORG NAME

GROUP-----: GPT

GM POWERTRAIN GRP

DIV/STAFF-----: 4700

POWERTRAIN

PERUNIT-----: 10020

GM POWERTRAIN-WRN ENG

DEPT-----: WH213

\*

LOCATION-----: 2130

WARREN MI

POS CODE-----: 7E06

SR PROJECT ENGINEER

LOCAL TITLE----

FUNCT ASSIGN----

\* \*

\*\*\*\*\*  
CONTACT NAME---: CHRISTINE WESTERN

CONTACT NUMBER-: 8-227-8762

\*\*\*\*\*  
TS0010-ENTER NUMBER(S)

## GM POWERTRAIN WARREN ENGINEERING CENTER EMPLOYEE CHANGE STATUS FORM

TO: ADMINISTRATIVE SERVICES 163-02, #2-7  
 SHIPPING & RECEIVING DOCK SUPERVISOR E-417, #2-7  
 PLANT ENGINEERING E-326M, #2-7  
 PERSONNEL ✓ 129-11, #2-7  
 SECURITY ✓ G-142, #2-7  
 EDS ✓ G-211, #2-7  
 BUSINESS MANAGEMENT 140-05, #2-7

☐ INTERNAL MOVE ☒ LEAVING FACILITY COMING FROM \_\_\_\_\_  
☐ NEW HIRE ☐ CONTRACT EMPLOYEE GOING TO \_\_\_\_\_  
☐ RELOCATION DOES CUBICAL EXIST? \_\_\_\_\_ DATE OF MOVE \_\_\_\_\_

SOCIAL SECURITY NUMBER: 381-68-1710  
 (REQUIRED ON PERSONNEL DEPARTMENT COPY "ONLY")

EMPLOYEE NAME: STASKO STANLEY R.  
 LAST FIRST INITIAL

DIVISION / DEPT. NAME / TITLE ACTIVITY: GMPT-WCW  
 LOCATION ROOM NUMBER: 1C1 PHONE: 8-226-7677  
(816) 986-7677

NAME CHANGE: — VME: 81011-67677  
 (PREVIOUS FULL NAME AS SHOWN IN DIRECTORY) NODE BOX

### PLEASE PROVIDE / CANCEL:

☐ KEYS - ROOM LOCK NUMBER ☐ KEYS - DESK LOCK NUMBER  
☒ PHONE ☒ VME ☐ EDSNET ID'S

COMPUTER EQUIPMENT: \_\_\_\_\_

PHONE DIRECTORY: ☒ CORPORATE ☐ GMPT ☒ WARREN

SECURITY PASS: ☒ PEP VEHICLE PARKING DESIGNATION: \_\_\_\_\_

IMMEDIATE SUPERVISOR: GERALD A. FAIRBANKS 6-7885  
 (PLEASE PRINT) (PHONE)

QUESTIONS REGARDING THIS FORM, CALL KAREN BLAND 2-5382.



# POWERTRAIN PHONE DIRECTORY UPDATE FOR PHONE AND MAIL SERVICE

Forward completed form to:  
GM Powertrain Division  
EDS Customer Service  
Mail Code 990  
Ypsilanti, MI 48198 - 6198

## PLEASE CHECK APPROPRIATE BOXES

- ☐ Contract Employee    ☒ Leaving Division    City WARREN  
☐ New Hire    ☐ Other \_\_\_\_\_ Plant GMPT-WCW  
☐ Relocation    (Explain) Home Plant \_\_\_\_\_  
If Different

Name STASKO, STANLEY R.

Full Name as Shown in Phone Directory

## PLEASE PRINT BELOW

Employee Name 

S	T	A	S	K	O		S	T	A	N	L	E	Y					R				
---	---	---	---	---	---	--	---	---	---	---	---	---	---	--	--	--	--	---	--	--	--	--

  
Last
First
Initial

Dept. Name/ Title Activity 

G	M	P	T	-	W	A	R	R	E	N		W	E	S	T								
---	---	---	---	---	---	---	---	---	---	---	--	---	---	---	---	--	--	--	--	--	--	--	--

Location/ Bay Balcony 

E	N	G	A		B	L	O	G	I	-	1	1
---	---	---	---	--	---	---	---	---	---	---	---	---

Phone Ext. 

8	2	2	6	7	6	7	7
---	---	---	---	---	---	---	---

Mail Code 

D	1	-	N	2
---	---	---	---	---

VME Node Box # 

8	1	0	1	1	6	7	6	7	7
---	---	---	---	---	---	---	---	---	---

Employee Signature

*Stanley Stasko*

Date 8/25/95



PLEASE RETURN THIS COMPLETED FORM TO:

*Judy*  
Judy McGlashan - EDS/GMPT Engineering  
Room A-220 G-121 (EXT 5-1745)  
Bldg. 2-7

LAST NAME: STASKO ROOM # 1C1  
FIRST NAME: STANLEY BUILDING # 1-11  
MIDDLE NAME: ROBERT DEPT. NAME: WARREN WEST  
SSN: 381-68-1710 DEPT #: WH 213  
Effective Date: 8/25/95 Last Day Worked: 8/25/95

## \*\*\*DATA SECURITY\*\*\*

(X) GM ( ) NON-GM Vendor Name \_\_\_\_\_

Have you ever had an EDS NETID?

( ) NO ( ) YES: NET ID \_\_\_\_\_

Please list any active application LOGON ID'S: \_\_\_\_\_  
(Please indicate PDS, IMS, TSO, etc.) \_\_\_\_\_  
INCLUDE CADAM AND CATIA) \_\_\_\_\_  
\_\_\_\_\_

\*\*\*\*\*

## \*\*\*PHONE CHANGES\*\*\*

VME BOX NUMBER: 67677 MANAGER'S NAME: JERRI FAIRBANKSVME NODE: 81011 CHIEF ENGINEER: \_\_\_\_\_

VME SYSTEM: \_\_\_\_\_

AT&T CALLING CARD NUMBER: NONEEDS TRAVELCALL CARD NUMBER: NONE

REQUEST TYPE: DELETE (phone, line, etc.)

TRANSFER (one person to another)  
(one account to another)  
(one department to another)

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

original sent to Judy Luther on 9/7/95 org

Exhibit - 14

### EMPLOYMENT HISTORY RECORD

H-HIRE	R-REHIRE	C-CHANGE CLASS	RC-RATE CHANGE	T-TRANSFER	Q-QUIT	LO-LAYOFF	D-DISCHARGE
FR-FINAL RELEASE		MS-MUTUALLY SATISFACTORY SEPARATION		S-SPECIAL SEPARATION			DS-DECEASED

\* 3.8 hour day

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 19\_\_\_\_

EMPLOYEE'S SIGNATURE

## Engineering Staff

CLOCK NO.	LAST NAME	FIRST	MIDDLE	YEAR BIRTH	SEX	SECTION	DOC. SEC. NO.	OUT
	STASKO	Stanley	R	1961	M	ES	381-68-1710	



Name: STASKO, Stanley R. Job Code: 2E30  
 Department: High School Coops I-11 Job Title: Learner-Lab Aide  
 Date: 8/10/79

## ATTENDANCE

Tardiness: ☐ Frequently ☐ Occasionally ☒ No Problem

Absenteeism: \_\_\_\_\_ Hours

JOB DUTIES: FABRICATION OF A WIDE ASSORTMENT OF  
ELECTRONIC DEVICES.

AREAS OF JOB STRENGTH: MAKES GOOD USE OF TIME. PERFORMS EACH  
TASK IN A HIGHLY PROFESSIONAL MANNER. VERY  
CONCISE INDIVIDUAL.

AREAS NEEDING JOB IMPROVEMENT: ELECTRONIC TROUBLE-SHOOTING - HOWEVER  
THIS WAS NOT A REQUIREMENT OF THIS POSITION.

## OVERALL JOB RATING

[ ☒ ]

[ ]

[ ]

[ ]

[ ]

Outstanding performance;  
far exceeds standard  
for this job; achievable  
but seldom attained  
performance.

Highly effective  
performance  
exceeds standard  
for this job.

Good competent  
performance; meets  
standard for this  
job; the level of  
performance most  
often achieved.

Needs slight  
improvement  
to meet  
standard for  
this job.

Needs much  
improvement  
to meet  
standard for  
this job.

Stanley Stasko  
Employee Signature

8-10-79  
Date

Paul Durrenberg  
Appraised By

8-10-79  
Date

JOB DUTIES: Fabrication and calibration of test  
equipment for emission tests were my  
main job duties.

WAS JOB CHALLENGING? Each job had its own challenges  
but I feel my full potential was  
not reached on any one project.

WERE RESOURCES AVAILABLE TO ACCOMPLISH JOB ASSIGNMENTS? I was  
supplied with good and quality  
material to complete each job.

WHAT, IF ANY, OBSTACLES HINDERED GOAL ACHIEVEMENT?  
No obstacles of any significance.

GENERAL COMMENTS: Cooperation and assistance by  
fellow employees excellent. Cooperative  
program has been a rewarding experience.

Stanley Stucko  
Employee Signature

8-13-79  
Date

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Engineering Staff - Environmental Activities Staff - Transportation Systems Division

Name of Employee Stanley R. StaskoDepartment I-11Date and Separation Classification 8-14-79 Special separation

+ + + +

DEPARTMENTAL COMMENTS

Please furnish a brief description of the employee's performance and reason for leaving. If any problem areas - such as attendance, work attitude, cooperation with other employees, etc., apply - give specific details. Return this form to Bettie Bennett of Personnel before the date of exit interview.

*Stanley did a superb job on electronic devices, he is leaving to go to school. His productivity was good, attitude exceptional, and gets along fine with everyone. No problem with attendance.*

Would you recommend for re-employment? yesThe above information furnished by: Paul E. Pichel  
(signed)PERSONNEL DEPARTMENT COMMENTS

Exit Interview conducted by: \_\_\_\_\_



Exhibit - 15

Lawrence Technological University Southfield, Michigan 1979-1983

B.S. Electrical Engineering (Summa Cum Laude)

With an emphasis in Digital and Microprocessor Circuits, and Mathematics and Computer Science

**Professional experience:**

General Motors Powertrain - Warren West Senior Project Engineer; From July, 1983 to August, 1995  
My overall responsibility was the design, engineering, and project management of multi-million dollar renovation projects.

**Project Management activity:**

Eight years experience in the design, engineering, and project management of advanced powertrain dynamometer multi-million dollar test laboratory renovation.

Four years experience in the design and engineering of advanced powertrain emissions million-dollar test laboratory renovation.

Scheduling project activity using Timeline software to generate timeline diagrams

Reviewed GM UAW hourly personnel work activity (including installing industrial equipment, electrical conduit, and 480 VAC wiring)

Reviewed GM salaried personnel renovation work activity

Reviewed EDS software work activity and helped establish work priorities

Inspected and approved test equipment at contractor facilities

Team leader for continuous improvement process group activity

**Summary of qualifications:**

Eight years experience in the design and engineering of test cell instrumentation, engine intake conditioned air systems, DSP high speed combustion analysis systems (100 kHz per channel), a hemi-anechoic chamber, fuel injector test stands, operator's control consoles, engine coolant and oil temperature control systems, cell safety systems, cell supply and exhaust ventilation renovation with Toshiba VFD, Allen-Bradley motor control centers, and a fuel injector test stand.

Four years experience in the design and engineering of emissions analysis equipment, sample conditioning equipment, operator's control consoles, test cell sensors and transducers, test site configuration, gas bottle storage room renovation for hazardous environment, overhead track systems, heating and ventilation equipment renovation for energy savings, and strip chart recorders.

Eight years experience in the design, engineering, integration, and project management of HP1000 - A900 series data acquisition test equipment renovation. Including Computer Products front-end equipment, analog and digital I/O cards, interface wiring, signal conditioning, grounding and shielding, and sensors.

Eleven years experience in the hardware and software design, integration, and implementation of Modicon (884, 984-680, and 984-E685) programmable logic controllers. Including the interfacing of the programmable logic controller to test cell equipment, generating the required I/O drawings using Autocad and Gray Soft software, and writing the required software logic using Digital Machine Control software.

Eight years experience in the design, integration, and implementation of electrical controls. Including General Motors ES-1 Electrical Standards, the National Electrical Code, NFPA 79 for Industrial Equipment, explosionproof requirements, intrinsic safety requirements, and test cell power requirements (less than 120 VAC, 120 VAC, and 480 VAC) distribution and grounding system.

Eight years experience in the design, integration, and implementation of Honeywell UDC3000 process controllers for temperature, pressure, and humidity control. Including writing the required configuration software, calibrating systems on start-up, and optimizing software tuning parameters utilizing Protuner auto-tuning software.

Three years experience in the design, integration, and implementation of Modicon Panelmate 2000 series video based man-machine interfaces. Including writing the required configuration and application software.

Twelve years experience in capital appropriations financial activity. Including cost estimates, procuring capital equipment, and tracking project monies for renovation activity.

Twelve years experience in interdepartmental and liaison work activity. Including leading design meetings between technical support personnel, engineers and project managers. Liaison work activity between General Motors and construction contractors and/or test equipment contractors.



1

Page 10/10  
10/10/11

2

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10/10/11

10

Page 10/10

Page 10/10  
10/10/11

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10/10/11

10

Case:2:09-cv-14827

Judge: Cook, Julian Abele

MJ: Morgan, Virginia M

Filed: 12-11-2009 At 04:18 PM

STANLEY STASKO V. GENERAL MOTORS CORP (KB)

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## Exhibit - 16

**Stasko v General Motors Corporation – Stanley R. Stasko Resume**

**1. Attended Cass Technical High School - 10, 11, and 12 Grades**

1.1. Electronics Program; Graduated with approximately a 3.7 GPA

1.2. Purposefully took extra courses in automotive technology

1.3. Entered physics program at Wayne State University – 11<sup>th</sup> Grade

1.3.1. \$100 award for being the outstanding student

1.3.2. Verify with DAPCEP, Detroit Area Pre-college Engineering Program 100

Farnsworth Suite 249 Detroit, Michigan 48202

1.4. General Motors offers Plaintiff a High School Co-op position – 12<sup>th</sup> Grade

1.4.1. General Motors Technical Center, Engineering Building, Dynamometer Wing

**2. Lawrence Technological University Southfield, Michigan – BSEE, 1983**

2.1. Started a dual degree program at Lawrence Technological University: BSEE and BS in Mathematics and Computer Science

2.2. Special dual degree courses completed

2.2.1. Computer Tech 3 Course # 32.273

2.2.2. Computer Science 1 Course # 32.425

2.2.3. Matrix Algebra Course # 32.565

2.2.4. Computer Science 2 Course # 32.513

2.3. Stanley R. Stasko needs one more year to complete a full second BS degree

2.3.1. According to the Lawrence Technological University Catalog 1981-82

2.3.2. Introduction to Western Civilization 1 38.113 (3) Credits

2.3.3. Introduction to Western Civilization 2 38.213 (3) Credits

2.3.4. Language and Literature Elective (3) Credits

2.3.5. Language and Literature Elective (3) Credits

2.3.6. Language and Literature Elective (3) Credits

2.3.7. Computer techniques 1 32.233 (3) Credits

2.3.8. Probability and Statistics 32.485 (5) Credits

2.3.9. Partial Differential Equations 32.643 (3) Credits

2.3.10. Numerical Analysis with Computer App 1 32.785 (5) Credits

2.3.11. Numerical Analysis with Computer App 2 32.795 (5) Credits



Stasko v General Motors Corporation – Stanley R. Stasko Resume

3. **Recognition of distinguished scholarship and exemplary character - Tau Beta Pi from Lawrence Technological University; Award certificate dated May 6, 1982**
4. **Awarded membership in the Lambda Iota Tau Honor Society from Lawrence Technological University; Award certificate dated June 5, 1983**
5. **Hired by General Motors Technical Center, Engineering Building, Emissions Wing as a 5<sup>th</sup> level Associate Engineer (5E35) approximately July 18, 1983**
  - 5.1. Plaintiff should have been hired as a 6<sup>th</sup> level Project Engineer; Four to five times General Motors specifically requested plaintiff to work for General Motors
  - 5.2. First time => plaintiff is asked to interview for a co-op position with General Motors coordinated with Cass Tech High School; General Motors offers plaintiff a co-op position; Plaintiff says no
  - 5.3. Second time => Cass Tech High School tells plaintiff to see his school counselor; Cass Tech pressures plaintiff to accept General Motors co-op position; plaintiff accepts; see General Motors letter signed by Eileen M. Poppleton – Student Coordinator dated June 9, 1978 (See Exhibit 13); General Motors retaliates by verbally assaulting plaintiff on first day of work
  - 5.4. Third time => plaintiff does so much good work for General Motors that General Motors asks plaintiff to continue to work into the summer after the school year ends; see General Motors Employment History Record – employment code changed from 2E00 to 2E30 on June 16, 1979 (See Exhibit 14)
  - 5.5. Fourth time => plaintiff does so much good work for General Motors that General Motors is running out of work for plaintiff to do; General Motors has to think of new work for plaintiff (rewiring Dynamometer Test Cell cylinder distribution solenoids); General Motors offers plaintiff a job with General Motors while he attends Lawrence Technological University; plaintiff says no
    - 5.5.1. General Motors Summer Temporary Student Appraisal of plaintiff: Overall job rating => Outstanding performance; far exceeds standard for this job; achievable but seldom attained performance; signed by Ron Meegan; dated August 10, 1979 (See Exhibit 14)

Stasko v General Motors Corporation – Stanley R. Stasko Resume

- 5.5.2. General Motors Evaluation on Separation or Transfer of plaintiff; Would you recommend for re-employment? Yes – signed by Paul E. Rishel (See Exhibit 14)
- 5.6. Fifth time => General Motors tries to hire plaintiff through Ron Buch-holz; Ron is a person plaintiff knows from Lawrence Technological University who in CY1983 works for General Motors; plaintiff does not express any interest to work for General Motors; Ron Buch-holz asks plaintiff for a resume to give to General Motors; plaintiff tells Ron Buch-holz that he is not interested in working for General Motors; eventually plaintiff gives Ron Buch-holz a resume; General Motors interviews plaintiff; General Motors offers plaintiff a job as a 5E35 Associate Engineer

Stasko v General Motors Corporation – Stanley R. Stasko Resume

**6. Humidity Monitoring to help diagnose problem with large printer**

- 6.1. a gentleman in the General Motors Technical Center, Engineering Building, North Lobby has a printer that can take a picture slide and expand it from approximately 2 inches X 2 inches to greater than 24 inches X 36 inches
- 6.2. the problem is that the quality of the expanded printout is unsatisfactory; the suspected problem is that the ambient air humidity conditions are not within printer specifications
- 6.3. plaintiff setup an EG&G Dew Point Meter and Ambient Temperature Sensor in the printer area
- 6.4. plaintiff trained project personnel on how to record EG&G Dew Point Meter and Ambient Temperature Sensor data
- 6.5. plaintiff trained project personnel in reading a Psychometric chart using Dew Point Meter and Ambient Temperature Sensor data
- 6.6. plaintiff trained project personnel on how to clean and calibrate the EG&G Dew Point Meter and Ambient Temperature unit
- 6.7. with plaintiff assistance the Ambient Air Relative Humidity was determined to be outside printer specifications

**7. Forty-Seven mm diesel particulate filter sampling system**

- 7.1. reduction in Diesel Particulate Filter size from approximately 140mm to 47 mm
  - 7.1.1. smaller filters require less shelf space to soak and normalize to ambient temperature and humidity conditions in the Diesel Particulate Filter Weight Room
  - 7.1.2. smaller filters are compatible with Sartorius microbalance
  - 7.1.3. smaller filters require less sample volume removed from CVS tunnel during testing
    - 7.1.3.1. less sample volume removed equals less mathematical correction
- 7.2. 47 mm diesel particulate filters are compatible with tri-pod sampling tree compared to 140 mm mono-pod sample probe
- 7.3. this can be verified by contacting Leslie Brown; the Diesel Particulate Filter Weight Room salaried technician

Stasko v General Motors Corporation – Stanley R. Stasko Resume

**8. Sartorius Microbalance**

- 8.1. used to weigh 47mm diesel particulate filter sampling system
- 8.2. measurements to 0.000001 grams
- 8.3. automated lifting mechanism allows specimen tray removal without contact by human hands
- 8.4. specimen reading initiated via foot operated switch connected to a printer
- 8.5. trained diesel Particulate Filter Room technician Leslie Brown in proper operation of Sartorius Microbalance

**9. Tylan Mass Flow Controllers**

- 9.1. evaluated and demonstrated that Tylan Mass Flow Controllers as an alternative to traditional Emission Analysis System sample flow control
- 9.2. parts reduction associated with using Tylan Mass Flow Controllers instead of traditional Emissions Analysis System sample flow control
  - 9.2.1. flow controllers, needle valves, flow meters, sintered metal filters
  - 9.2.2. fittings, 0.25 inch tubing, fitting sealant, and assembly labor
- 9.3. front panel space reduction
  - 9.3.1. no needle valves to mount
  - 9.3.2. no flow meters to mount
- 9.4. to verify plaintiff considered Tylan Mass Flow Controllers for Emission Analysis System applications contact Fred Nadar (sales representative who wanted to use Tylan Mass Flow Controllers if his company was awarded General Motors Technical Center, Engineering Building, Emissions Wing renovation, Emissions Analysis System contract)
- 9.5. it was General Motors decision not to use Tylan Mass Flow Controllers; even though, plaintiff demonstrated Tylan Mass Flow Controllers as an alternative to traditional Emission Analysis System sample flow control



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**10. Sample Conditioning Unit**

- 10.1. Design and engineering of a new Sample Conditioning Unit for the Emissions Wing Test Sites
- 10.2. plaintiff designed the Sample Conditioning Unit for simultaneously conditioning four sample lines
- 10.3. plaintiff calculated the sizes of the new cooling coils
- 10.4. plaintiff designed larger cooling coil traps that do not require flushing in the middle of an Emissions Analysis test to remove the accumulated water from the cooling coil traps
- 10.5. plaintiff designed new stainless steel cooling bath
- 10.6. plaintiff designs new custom-made Sample Conditioning Unit enclosure
  - 10.6.1. Jerry Sidlar, instrumentation technician assigned to the project, purposefully gives plaintiff bad information by telling plaintiff to design the Sample Conditioning Unit so big that you can remove any component without having to remove another component
  - 10.6.2. General Motors will use the basic design of plaintiff Sample Conditioning Unit in the Emission Wing Renovation except that the revised design will be significantly smaller in size (just the opposite of the information Jerry Sidlar gave to plaintiff)
- 10.7. plaintiff provided drawings for fabrication of the new stainless steel cooling bath
- 10.8. plaintiff provided drawings for fabrication of the new custom-made Sample Conditioning Unit enclosure
- 10.9. plaintiff tells Jerry Sidlar that the new Sample Conditioning Unit will have a programmable logic controller, Paul Durrenberg steals plaintiff idea of using a programmable logic controller by programming it before plaintiff

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**General Motors Technical Center – Engineering Building - Emissions Wing Renovation**

**11. Horiba Chassis Dynamometer Controller**

- 11.1. Early in the Emissions Wing Renovation there were discussions with various vendors about the possible sales opportunities within the scope of the Emission Wing Renovation
- 11.2. Horiba Instruments was the eventual supplier selected for the Chassis Dynamometer Controller
- 11.3. Terri Hostteter was the General Motors representative for the project
- 11.4. plaintiff had the opportunity to review some Horiba Chassis Dynamometer Controller information and found an error in the Horiba hardware circuit
- 11.5. plaintiff reward from General Motors for finding an error in the Horiba Chassis Dynamometer Controller hardware circuit => basically nothing

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**12. Overhead Track System**

- 12.1. Three independent tracks
  - 12.1.1. Each track could transverse North and South
  - 12.1.2. Each track could transverse East and West
  - 12.1.3. Each track could transverse up and down
  - 12.1.4. Each telescoping tube assembly could rotate
- 12.2. North most track assigned to video based drivers aid
  - 12.2.1. useful for left handed vehicles (USA) and right handed vehicles (Europe)
  - 12.2.2. elimination of two-pen recorder taking up valuable Emission Test Site floor space
- 12.3. Middle track assigned to Emission Test Site Instrumentation Console
  - 12.3.1. useful for positioning temperature, pressure, and RPM sensors near engine compartment for front-wheel drive vehicles or rear-wheel drive vehicles
  - 12.3.2. short pressure transducer lines minimize pressure line dips / valleys
- 12.4. South most track assigned to Engine Cooling Fan
  - 12.4.1. useful for positioning Engine Cooling Fan near vehicle radiator of front-wheel drive vehicles or rear-wheel drive vehicles
  - 12.4.2. elimination of Engine Cooling fan taking up valuable Emission Test Site floor space
  - 12.4.3. Emission Test Site temperature sensor and humidity sensor pickup mounted on South most telescoping tube assembly to ensure representative temperature and humidity reading for Emission Test Site Computer
- 12.5. Installed by UAW personnel
  - 12.5.1. with McKinney supplying a working supervisor
- 12.6. plaintiff gains experience working with UAW personnel
- 12.7. plaintiff gains experience working with outside contractors
- 12.8. another successful project by plaintiff
- 12.9. Overhead Track System project can be verified by contacting David McKinney, McKinney & Company, P.O. Box 1702, 221 Felch, Ann Arbor, Michigan 48106

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**13. Emission Wing Renovation – Design Coordination**

- 13.1. Gathered information for Smith H&G for HVAC design report
  - 13.1.1. For example – Emission analysis equipment 120 VAC power consumption
- 13.2. New Emission Wing Test Site changes include
  - 13.2.1. Test Site #1, Test Site #2, Test Site #3, and Test Site #4 extended North approximately five feet
  - 13.2.2. On-line Emissions analyzers calibration gas storage room relocated to second floor
  - 13.2.3. New Emission analyzers calibration gas analysis room constructed in Southeast corner of Emissions Wing next to Vehicle Fuel Transfer Room
  - 13.2.4. Diesel Particulate Filter Weight Room relocated from basement to 1<sup>st</sup> floor of the Emissions Wing
- 13.3. plaintiff specifies Richmond Instruments to provide plexi-glass footprint of new Emissions Analysis Benches to aid in the physical layout of the new Emissions Analysis Benches on new eight inch raised flooring:
  - 13.3.1. interfacing with renovated monoxide ventilation piping
  - 13.3.2. routing of new under-raised flooring HVAC ventilation ducting
  - 13.3.3. locating new under-raised flooring Smoke and Fire detectors
  - 13.3.4. interfacing of 120 VAC electrical power
- 13.4. plaintiff specified location of some of the new equipment located in the New Host Computer Room
  - 13.4.1. new stand-alone HVAC unit
  - 13.4.2. new stand-alone Power Conditioning Unit
  - 13.4.3. new Honeywell DDC Supervisor Personal Computer
- 13.5. coordinated mounting of MVEL supplied Video Based Drivers Aid to North most track of Overhead Drivers Aid system
- 13.6. coordinated mounting of General Motors purchased Engine Cooling Fan to South most track of Overhead Drivers Aid system
- 13.7. plaintiff found mistake in Horiba Dynamometer Controller circuit



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**14. Emissions Wing Renovation – Project Management**

- 14.1. Recorded day-to-day construction contractor head count and work activity
- 14.2. Circulated and approved construction contractor equipment submittals
- 14.3. plaintiff project managed the construction contractor portion of the Emission Wing Renovation independent of Ward Wiers or Denise Wiese
  - 14.3.1. plaintiff did not revive or ask approval from Ward Wiers or Denise Wiese on a daily basis
  - 14.3.2. plaintiff did not revive or ask approval from Ward Wiers or Denise Wiese on a weekly basis
  - 14.3.3. plaintiff did not revive or ask approval from Ward Wiers or Denise Wiese on a monthly basis
  - 14.3.4. Ward Wiers and Denise Wiese could have been in a hospital and plaintiff would not have noticed their absence during day-to-day Project Management of contractor work associated with the Emissions Wing Renovation
- 14.4. plaintiff approved outside contractor monthly request for payments
  - 14.4.1. plaintiff did not ask for Denise Wiese or Ward Wiers approval
- 14.5. Reviewed and approved outside contractor work order bulletins, field orders, and time and material work activity
  - 14.5.1. plaintiff did not ask for Denise Wiese or Ward Wiers approval
- 14.6. When Utley-James was having financial difficulty paying its subcontractors it was plaintiff that was General Motors representative in piecing together the financial status of the Emission Wing Renovation project
  - 14.6.1. plaintiff did not ask for Denise Wiese, Ward Wiers, or Chuck Satchell approval
- 14.7. When General Motors negotiated paying Utley-James subcontractors plaintiff was 1 of 2 General Motors representatives (John Stanek the other GM representative) in bring to a conclusion the financial status of the Emission Wing Renovation project
  - 14.7.1. plaintiff did not ask for Denise Wiese, Ward Wiers, or Chuck Satchell approval
- 14.8. plaintiff directed UAW personnel in modifying and starting-up the Overhead Door Logic Controls

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- 14.9. Documentation of Emissions Wing Renovation project including tagging major electrical equipment supplied by outside construction contractor (transformers, motor control centers, disconnects)
  - 14.9.1. including tagging 120VAC electrical outlets
  - 14.9.2. including documenting the rewrite of the Modicon 884 PLC program

**15. Instrumentation Console and Custom Enclosure**

- 15.1. designed and fabricated in-house; not purchased from a supplier
- 15.2. approximately eight thermocouple channels
  - 15.2.1. with Acromag signal conditioning modules
  - 15.2.2. up to sixteen modular signal conditioning modules in a 19inch rack mount housing
- 15.3. approximately six Viatran pressure transducers
  - 15.3.1. differential pressure measurement
    - 15.3.1.1. positive pressure measurement
    - 15.3.1.2. negative pressure measurement
    - 15.3.1.3. differential pressure measurement
  - 15.3.2. mounted on a sliding shelf for easier servicing
    - 15.3.2.1. pressure transducer calibration switches mounted on sliding shelf for close proximity to pressure transducers
- 15.4. Engine RPM pickup and measurement
- 15.5. all internal interface wiring documentation
- 15.6. all external interface wiring documentation from Instrumentation Console to Emission Test Site Patch Panel
- 15.7. mounted on middle track of the Overhead Track System
  - 15.7.1. useful for positioning temperature, pressure, and rpm sensors near engine compartment for front-wheel drive vehicles or rear-wheel drive vehicles
  - 15.7.2. short pressure transducer lines minimize pressure line dips / valleys
- 15.8. plaintiff procured custom enclosure
- 15.9. Phil Brock modified custom enclosure to mount onto the Overhead Track System

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**16. Emission Test Site Instrumentation Patch Panel**

- 16.1. designed in-house by plaintiff
- 16.2. wire interfacing by plaintiff
- 16.3. documentation by plaintiff
- 16.4. Project management by plaintiff
- 16.5. Fabricated by Richmond Instruments
- 16.6. Signal input from array of sources
  - 16.6.1. Engine Out Emission Analyzers
  - 16.6.2. Tailpipe Emission Analyzers
  - 16.6.3. Bag Emission Analyzers
  - 16.6.4. Instrumentation Console temperature signals
  - 16.6.5. Instrumentation Console pressure signals
  - 16.6.6. Instrumentation Console RPM signal
- 16.7. Signal outputs
  - 16.7.1. Signal output #1 --- to Site Computer Aux01 signal input
  - 16.7.2. --- to (12) Channel Recorder channel 01
  - 16.7.3. Signal output #2 through #12 similar to Signal output #1
  - 16.7.4. Signal output #13 --- to Site Computer Aux13 signal input
  - 16.7.5. Signal output #14 through #18 similar to Signal output #13
- 16.8. Recessed slots to hold stereo-jack connectors in a tidy storage

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**17. 12-Channel Strip Chart Recorder and Custom Enclosure**

- 17.1. plaintiff directed technician Ken Welbaum in collecting measurement data from a cross section of vehicles
- 17.2. plaintiff specified height of strip chart recorder pen above finished floor based on sample data collected
- 17.3. plaintiff surveyed several technicians to obtain proper viewing angle of 12-channel strip chart recorder pens from Emission Test Site vehicle
- 17.4. included with pull-out drawer to catch z-fold strip chart recorder paper while in use
- 17.5. plaintiff provided Richmond Instruments with preliminary drawings for fabrication of 12-channel strip chart recorder cart important dimensions
- 17.6. fabricated by Richmond Instruments
- 17.7. plaintiff designed instrumentation interfacing

**18. Dew Point Meter and Ambient Temperature Sensor and Custom Enclosure**

- 18.1. plaintiff selected EG&G Dew Point Meter and Ambient Temperature Sensor
  - 18.1.1. plaintiff expanded supplier base because General Eastern Dew Point Meter was the standard for General Motors MVEL
- 18.2. plaintiff worked with supplier to implement plaintiff specified modifications; (this can be verified by talking with Jim Parker the EG&G sales representative at the time)
- 18.3. Dew Point sample point and Ambient Temperature sensor remote mounted on Overhead Track System to measure Engine Intake Air conditions
- 18.4. plaintiff used Acromag signal conditioning modules to isolate signals to HVAC controls and Test Site Computer
- 18.5. plaintiff designed interface wiring
- 18.6. Richmond Instruments fabricated the custom enclosure
- 18.7. Project management by plaintiff
- 18.8. one unit in Test Site #1; one unit in Test Site #2; one unit in Test Site #3
- 18.9. one unit in Test Site #4; one unit in Test Site #5; two units in Soak Area
- 18.10. one unit in Diesel Particulate Filter Weight Room



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**19. Instrumentation Interfacing**

- 19.1. General Motors Milford Proving Grounds (MVEL) provided the Emissions Test Site Computer
  - 19.1.1. MVEL interfaced the Emissions Test Site Computer to the Emissions Analysis Systems
  - 19.1.2. MVEL documented the interfacing from the Emissions Test Site Computer to the Emissions Analysis Systems
- 19.2. plaintiff designed the interfacing for the interior of the Instrumentation Patch Panel
- 19.3. plaintiff documented the interfacing for the interior of the Instrumentation Patch panel
- 19.4. plaintiff designed the interfacing from the Instrumentation Patch Panel to the Emissions Test Site Computer
- 19.5. plaintiff documented the interfacing from the Instrumentation Patch panel to the Emissions Test Site Computer
- 19.6. plaintiff designed the interfacing from the Instrumentation Patch Panel to the 12-Channel Strip Chart Recorder
- 19.7. plaintiff documented the interfacing from the Instrumentation Patch panel to the 12-Channel Strip Chart Recorder
- 19.8. plaintiff designed the interior interfacing of the 12-Channel Strip Chart Recorder
- 19.9. plaintiff documented the interior interfacing of the 12-Channel Strip Chart Recorder
- 19.10. plaintiff designed the interfacing from the Instrumentation Console to the Instrumentation Patch Panel
- 19.11. plaintiff documented the interfacing from the Instrumentation Console to the Instrumentation Patch Panel
- 19.12. plaintiff designed the interfacing for the interior of the Instrumentation Console
- 19.13. plaintiff documented the interfacing for the interior of the Instrumentation Console

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- 19.14. plaintiff designed the interfacing from the Dew Point Meter and Ambient Temperature Sensor Enclosure to the Instrumentation Patch Panel
- 19.15. plaintiff documented the interfacing from the Dew Point Meter and Ambient Temperature Sensor Enclosure to the Instrumentation Patch Panel
- 19.16. plaintiff designed the interfacing for the interior of the Dew Point Meter and Ambient Temperature Sensor Enclosure
- 19.17. plaintiff documented the interfacing for the interior of the Dew Point Meter and Ambient Temperature Sensor Enclosure

**20. Programmable Logic Controllers – integrated into Emissions Analysis Systems**

- 20.1. Don Nagy of General Motors Milford Proving Grounds specifically stated that Programmable Logic Controllers have been tried by General Motors before and cannot be made to work for Emissions Analysis Systems application; Don Nagy recommended using Milford Vehicle Emissions Lab Bench Controller
- 20.2. When General Motors was starting up the first Programmable Logic Controller and a minor problem appeared between the Emissions Test Site Computer and the Programmable Logic Controller; you should have seen Jo-han-na You-house (Don Nagy's representative from General Motors Milford Proving Grounds responsible for the Emissions Test Site Computer) run to the telephone and start complaining that it does not work
- 20.3. plaintiff rewrote practically all of the Modicon 884 PLC software provided by Richmond Instruments
  - 20.3.1. Richmond Instruments software exhausted PLC memory
  - 20.3.2. Richmond Instruments software incomplete and non-functioning
- 20.4. plaintiff version of Modicon 884 PLC software uses unique programming logic
- 20.5. plaintiff proved Don Nagy and General Motors wrong by proving Programmable Logic Controllers can be used in Emission Analysis System applications
- 20.6. plaintiff implementation of Modicon 884 Programmable Logic Controllers is another example of plaintiff expanding General Motors vendor base because General Motors strongly uses Allen Bradley Programmable Logic Controllers

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**21. Large Temperature and Humidity Display**

- 21.1. the purpose of the Large Temperature and Humidity Display (approximately 30 inches wide by 42 inches tall) was to make the display large enough whereby a group of General Motors managers touring the Emissions Wing could easily view Emissions Test Site temperature and humidity conditions in real time
- 21.2. located near the entrance to the Emission Wing
- 21.3. grouped in logical order
  - 21.3.1. Test Site #1 – Temperature and Humidity
  - 21.3.2. Test Site #2 – Temperature and Humidity
  - 21.3.3. Test Site #3 – Temperature and Humidity
  - 21.3.4. Test Site #4 – Temperature and Humidity
  - 21.3.5. Test Site #5 – Temperature and Humidity
  - 21.3.6. Soak Area #1 – Temperature and Humidity
  - 21.3.7. Soak Area #2 – Temperature and Humidity

**22. Honeywell HVAC Central Control Station**

- 22.1. plaintiff directed Honeywell in the software configuration of the HVAC Central Control Station configuration
- 22.2. ten display pages laid out by Stanley R. Stasko
- 22.3. plaintiff specified the parameters to be displayed in logical groups
  - 22.3.1. Emissions Test Site #1 parameters
  - 22.3.2. Emissions Test Site #2 parameters
  - 22.3.3. Emissions Test Site #3 parameters
  - 22.3.4. Emissions Test Site #4 parameters
  - 22.3.5. Emissions Test Site #5 parameters
  - 22.3.6. Soak Area parameters
  - 22.3.7. Temperature and Humidity parameters
  - 22.3.8. Test Site status parameters
- 22.4. Honeywell DDC personal computer physically located in Emissions Wing Host Computer Room

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**23. Smoke Detector Graphics Display Panel**

- 23.1. the Emission Wing Renovation included installing raised flooring in areas previously with bare concrete floors
- 23.2. the Emission Wing Renovation included installing suspended ceilings in areas previously open ceilings
- 23.3. smoke detectors were installed above the suspended ceilings, on the exposed side of the suspended ceilings, and below the raised flooring
- 23.4. a Smoke Detector Graphics Display Panel was installed next to the Large Temperature and Humidity Display Panel to give General Motors Security a quick reference to the location of a alarm and / or fault of a smoke detector

**24. Overhead Door Logic Controls**

- 24.1. part of the Emissions Wing renovation was the installation of a vehicle air lock to environmentally isolate the Emissions Wing from the rest of the Engineering Building
- 24.2. an automobile trying to enter the Emissions Wing would approach the air lock; the first door would open; the vehicle would enter the air lock; the first door would close; the second door would open, then the vehicle would drive out of the vehicle air lock
- 24.3. the vehicle air lock was supplied by Utley-James (the outside contractor) and used conventional discrete logic (no Programmable Logic Controller) for controlling the sequence of the vehicle air lock operation
- 24.4. the overhead door logic controls does not work
- 24.5. the enclosure is so small there is practically no room to add any relays if necessary
- 24.6. plaintiff reviews the engineering prints and directs two UAW personal to rewire the Overhead Door logic controls according to plaintiff redesign; (this can be verified by talking to Jim and Frank the two UAW electricians)
- 24.7. the Overhead Door logic controls redesign is successful
- 24.8. plaintiff writes an Operations Memo
- 24.9. Operations memo distributed to appropriate personal



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**25. Software Programming Skills and Software Program Management**

- 25.1. Wrote **Basic Language** software program for 47 MM Diesel particulate Filter Sampling System
- 25.2. Fortran language software programming at Lawrence Technological University Southfield, Michigan
- 25.3. Additional software programming at Lawrence Technological University Southfield, Michigan as part of a Special dual degree program in Mathematics and Computer Science
  - 25.3.1. Computer Tech 3 Course # 32.273
  - 25.3.2. Computer Science 1 Course # 32.425
  - 25.3.3. Computer Science 2 Course # 32.513
- 25.4. Microprocessor assembly language software programming at Lawrence Technological University Southfield, Michigan as part of BSEE degree program
- 25.5. Modicon 884 Programmable Logic Controller software programming for Emission Wing Emissions Analysis equipment
- 25.6. Modicon 984 Programmable Logic Controller software programming for Dynamometer Wing programmable logic controller enclosure application
- 25.7. showed EDS software personnel how Digital Machine Design techniques could be used to structure the software program for Dynamometer Wing Controlled Schedule Testing software
- 25.8. explained software requirements for Dynamometer Test Cell End-to-End Instrumentation calibration to EDS
- 25.9. Wrote Lotus 1-2-3 spreadsheet program to estimate the software headcount requirements
  - 25.9.1. Variables included: estimated software hours, vacation time, normal day-to-day software maintenance overhead, and new software employee effectiveness

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**General Motors Technical Center – Engineering Building - Dynamometer Wing  
Renovation**

**26. Fuel Meter Calibration Cart**

- 26.1. Old fuel meter calibration cart poured raw gasoline into an open container
  - 26.1.1. Gasoline could spill unto floor
- 26.2. Old fuel meter calibration cart did not meet Class 1, Division 1, Group C / D requirements
- 26.3. New fuel meter calibration cart
- 26.4. All gasoline fuel enclosed in stainless steel or compatible material
- 26.5. Safety improved with Class 1, Division 1, Group D requirements; positive pressurization; or intrinsic safety
- 26.6. Employed new technology; EXAC coriollis meter
- 26.7. plaintiff worked with pulse counter supplier to modify pulse counter to plaintiff custom specifications
- 26.8. plaintiff designed and engineered fuel meter calibration cart
- 26.9. plaintiff selected major components for fuel meter calibration cart
- 26.10. plaintiff procured major components for fuel meter calibration cart
- 26.11. plaintiff specified interface wiring for fuel meter calibration cart
- 26.12. plaintiff wrote software program to semi-automate calibration report for the fuel meter calibration cart
- 26.13. plaintiff project managed the fabrication of the fuel meter calibration cart
- 26.14. this can be verified by contacting Karl Klida the General Motors Salaried technician assigned to fabricating the Fuel Meter Calibration Cart

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**27. Fuel Injector Test Stand Renovation**

- 27.1. Surveyed project personnel to determine fuel pressure and flow requirements
- 27.2. Surveyed project personnel to determine problems with existing Fuel Injector Test Stand procured by General Motors that remained unresolved until plaintiff arrived in Dynamometer Wing
- 27.3. Design and engineering to make all wetted materials compatible with gasoline, methanol, and ethanol fuels
- 27.4. Design and engineering to make appropriate electrical equipment compatible with Class 1, Division 1, Group D requirements
- 27.5. Design and engineering to positive purge electrical enclosures to reduce rating from Class 1, Division 1, Group D to non-hazardous
- 27.6. Unique application of intrinsic safety barrier to make computer keyboard intrinsically safe in a Class 1, Division 1, Group D environment
- 27.7. Design and engineering of modification of electrical controls
  - 27.7.1. Application specific start-up procedure to ensure Fuel Injector Test Stand cannot be casually started by unauthorized personnel drifting into the remote Fuel Blend House
- 27.8. Specified, ordered, and procured major components
- 27.9. Coordinated the transfer of the Fuel Injector Test Stand from Test Cell #12 (old carburetor flow room) to Fuel Blend House
- 27.10. Project management and project coordination of work activity between outside suppliers, General Motors salaried personnel, and UAW personnel
- 27.11. Assisted in equipment startup
- 27.12. Wrote start-up procedure for Fuel Injector Test Stand remote HP computer
- 27.13. to verify the scope of the changes to the Fuel Injector Test Stand renovation contact Lou Wine-nand (General Motors Engineer) and Dick Powel (General Motors Salaried Technician); also Steve Fry (a General Motors Salaried Technician from another General Motors Test Laboratory) who was familiar with using the renovated Fuel Injector Test Stand at the General Motors Technical Center, Dynamometer Wing

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**28. Elimination of Dynamometer Shimming**

- 28.1. plaintiff eliminated Dynamometer shimming
- 28.2. this was a procedure that General Motors Dynamometer Maintenance personal could not explain its (have to pick the right word)
- 28.3. when plaintiff eliminated Dynamometer shimming, Doug Neumann was retired

**29. Engine Coolant and Engine Oil Process Control**

- 29.1. Significant equipment mounting space requirement reduction
  - 29.1.1. Space savings allowed for a larger PLC enclosure to be mounted on the basement test cell wall
  - 29.1.2. Space savings aided in bring about a more consistent equipment layout as each Dynamometer Test Cell was renovated
- 29.2. Design and engineering of new engine coolant and engine oil heat exchangers; (plaintiff procured the initial heat exchangers from Kundinger Fluid Power, Madison Heights, Michigan)
  - 29.2.1. Old engine coolant process cooling heat exchangers were oversized for modern smaller displacement engines
- 29.3. Design and engineering of new process control valves; (this can be verified by talking to SW Controls, 45345 Five Mile Road, Plymouth, Michigan 48170 - one of the two finalist selected for bidding the control valve order)
  - 29.3.1. Engine coolant process cooling
    - 29.3.1.1. old engine coolant process cooling control valve was improperly sized and did not work unless process heating steam was injected to generate an artificial load
  - 29.3.2. Engine coolant process heating
  - 29.3.3. Engine oil process cooling
  - 29.3.4. Engine oil process heating
- 29.4. Replaced a mis-mash of solenoids, pipe sizes, control valves, and equipment layout configuration with a consistent design
- 29.5. plaintiff calculated new copper pipe sizes



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- 29.6. plaintiff calculated new solenoid specifications
- 29.7. plaintiff specified new water shock absorbers
- 29.8. Design and incorporation of new Honeywell UDC3000 process controllers
  - 29.8.1. plaintiff specified product
  - 29.8.2. plaintiff designed equipment interfacing
  - 29.8.3. plaintiff designed hardware configuration
  - 29.8.4. plaintiff specified software configuration
  - 29.8.5. plaintiff performed detailed input / output calibration
  - 29.8.6. plaintiff determined PID tuning parameters
- 29.9. plaintiff procured Techmation Protuner 2000 and introduce new technology in the tuning of PID process controller
  - 29.9.1. no more trial-and-error, or guessing
  - 29.9.2. could be used with Honeywell UDC3000 process controllers or any of a large array of PID process controllers
  - 29.9.3. to verify that plaintiff Techmation Protuner 2000 contact Techmation 8070 E. Morgan Trail, Suite 150, Scottsdale, Arizona 85258-1228
- 29.10. New engine coolant process cooling and heating support stand located in Dynamometer test cell
  - 29.10.1. Engine coolant process cooling heat exchanger
  - 29.10.2. Engine coolant process heating heat exchanger
  - 29.10.3. Expansion tank (new expansion tank size calculated by plaintiff)
  - 29.10.4. Pressure relief valve
  - 29.10.5. Coolant fill port
  - 29.10.6. Coolant level sight glass
  - 29.10.7. Coolant presence safety probe
  - 29.10.8. Overflow tube
  - 29.10.9. By relocating the engine coolant process cooling heat exchanger and engine coolant process heating heat exchanger to the support stand located in the

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Dynamometer test cell the amount of antifreeze required to fill the engine coolant system was reduced from approximately 20 gallons to 5 gallons

- 29.11. Specified, ordered, and procured major components including heat exchangers, control valves, solenoid, water shock absorbers, and Honeywell UDC300 process controllers
- 29.12. Coordinated the design of the new engine coolant process cooling and engine coolant process heating heat exchanger support stand
- 29.13. Project management and project coordination of work activity between outside suppliers, General Motors salaried personnel, and UAW personnel; (this can be verified by contacting Dave Van-poel-e-vor-de) the General Motors Salaried technician assigned to various Engine Coolant and Engine Oil Process Control projects)
- 29.14. plaintiff provided detailed equipment startup
- 29.15. Wrote and maintained detailed Honeywell UDC3000 input / output configuration tables and PID tuning parameters

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**30. DSP Combustion Analysis System**

- 30.1. Original report on combustion analysis made by General Motors Research
- 30.2. General Motors Corporation then worked with DSP Technology to sell Combustion Analysis Systems to General Motors Corporation
- 30.3. plaintiff task was to procure two integrated Combustion Analysis Systems from DSP Technology
- 30.4. Since plaintiff was a designer / engineer / project manager plaintiff decided to allow two Test Cell Operators (people who would actually use the equipment) to travel to DSP Technology in California, USA
- 30.5. The two Test Cell Operators selected were Eric Dobis and Denise Montville
  - 30.5.1. Eric Dobis went on the first trip; the timeframe can be easily pinpointed since Eric Dobis visited DSP Technology during the famous California earthquake that caused a major bridge to collapse
  - 30.5.2. Denise Montville went on the second trip; the timeframe can be narrowed down since Denise Montville called plaintiff because he was having problems charging items with his credit card
- 30.6. plaintiff reward for successfully procuring two integrated Combustion Analysis Systems => Basically nothing

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**31. DSP Combustion Analysis System – Several years later**

- 31.1. Several years later General Motors Corporation and DSP Technology had a problem with the DSP Combustion Analysis Systems that General Motors Corporation could not solve nor could DSP Technology solve
  - 31.1.1. This can be verified by talking to General Motors engineer Tony Sperling or with DSP Technology (try DSP Technology sales representative Tim Sante)
- 31.2. General Motors Corporation got so desperate that they accused DSP Technology of having a software virus in their equipment
- 31.3. General Motors Corporation asked plaintiff to try to solve the problem
- 31.4. The basic problem – DSP Technology Combustion Analysis System RPM signal unstable
  - 31.5. Example: 2400 RPM + / - a lot of fluctuation
  - 31.6. plaintiff within minutes breaks solves the problem
  - 31.7. RPM signal from one pulse per revolution signal
  - 31.8. 2400 RPM equals 40 pulses per second
  - 31.9. Display updates approximately one update per second
  - 31.10. Therefore RPM signal accuracy at 2400 RPM equals 40 pulses + / - 1 pulse equals 2.5 percent accuracy
  - 31.11. 2400 RPM \* 2.5 percent equals 60 RPM
  - 31.12. 2400 RPM + / - 60 RPM; Problem solved!
  - 31.13. Remember nobody in General Motors Corporation nor in DSP Technology could figure out the problem
- 31.14. plaintiff reward for solving this problem – basically nothing



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**32. Druck Pressure Transducers**

- 32.1. plaintiff was willing to break away from many years of using Viatran pressure transducers in Emission Wing Emissions Testing and Dynamometer Wing Dynamometer Testing and switch to Druck pressure transducers
- 32.2. plaintiff developed custom pressure transducer specifications for Dynamometer Testing
  - 32.2.1. old Viatran pressure transducers
    - 32.2.1.1. 0.40 percent full scale accuracy
    - 32.2.1.2. problems with temperature drift
    - 32.2.1.3. problems with long term stability
- 32.3. new Druck pressure transducers
  - 32.3.1. 0.15 percent full scale accuracy
  - 32.3.2. tighter temperature drift specifications
  - 32.3.3. greater long term stability; greater than 6 months without recalibration required
- 32.4. relocating the Druck Pressure Transducers to the new Instrumentation Booms allowed for the elimination of the Dynamometer Test Cell secondary console
  - 32.4.1. also eliminated the accumulation of fluid from the pressure transducer sample lines
  - 32.4.2. also eliminated long pressure transducer sample lines
- 32.5. by selecting Druck Pressure Transducers plaintiff expanded General Motors supplier base; plaintiff expanded his experience with working with multiple vendors
- 32.6. plaintiff supported using Druck pressure transducers, Paul Durrenberg supported using Viatran pressure transducers
- 32.7. plaintiff evaluated Druck and Viatran pressure transducers (that meet plaintiff custom pressure transducer specifications) and showed that Druck pressure transducers performed better than the Viatran pressure transducers
- 32.8. Druck pressure transducers first installed in Dynamometer Test Cell #13 renovation

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- 32.8.1. some pressure transducers operated over one year without re-calibration and still operated within Dynamometer Wing Test Cell operating specifications (within +/- one percent)
- 32.9. because the Druck pressure transducers were mounted in overhead operators boom this helped in eliminating of Dynamometer Test Cell Operators Console (located inside Test Cell)
- 32.10. Tim Sante, a sales representative for a supplier, specifically asked plaintiff about his application of pressure transducers in Dynamometer Testing
- 32.11. One Druck pressure transducer mysteriously damaged; would be interesting to see if it was sabotaged (plaintiff caught PED committing sabotaged)

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**33. New Programmable Logic Controller (PLC) and PLC Enclosure**

- 33.1. Old Mechanical Box removed
- 33.2. Old wiring removed
- 33.3. Old conduit, old wire-way, and old oversized junction boxes removed
- 33.4. plaintiff ended the old practice of trying to reuse the existing conduit and wiring  
(General Motors did not support the scrapping of the existing conduit, the existing wire-way, and the existing oversized junction boxes until General Motors seen how good the Dynamometer Test Cell looked with the new electrical conduit)
- 33.5. plaintiff proved he could design and engineer an entire Programmable Logic Controller for a Dynamometer Test Cell
- 33.6. plaintiff redesign of the Engine Coolant Temperature and Engine Oil Temperature Process Control System opened up the needed wall space for the larger Programmable Logic Controller Enclosure
- 33.7. The new Programmable Logic Controller enclosure, the new electrical conduit, the carefully layout of the new equipment, and the fresh painting of the work area transformed the Dynamometer Test Cell basement work area into a modern looking Dynamometer Test Lab
  - 33.7.1. plaintiff forced General Motors to take a clean sheet approach
    - 33.7.1.1. the reader can not appreciate how much harassment plaintiff received from General Motors for not reusing the existing conduit, the existing wire-way, and the existing oversized junction boxes
  - 33.7.2. Prior to plaintiff transferring into the Dynamometer Wing from the Emissions Wing, an ISSC Programmable Logic Controller was implemented in an existing Mechanical Box (the surrounding Dynamometer Test Cell basement work area still looked outdated)
  - 33.7.3. A picture speaks a thousand words to the aesthetic improvement made by plaintiff with the new Programmable Logic Controller Enclosure, the new electrical conduit, the carefully layout of the new equipment, and the fresh painting of the work area in transforming the Dynamometer Test Cell basement

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- 33.8. plaintiff designed and engineered the interfacing of the Programmable Logic Controller enclosure to:
- 33.8.1. a manual push button interface panel in Dynamometer Test Cell #11
  - 33.8.2. a Video Based Man-Machine Interface in later Dynamometer Test Cell renovations
  - 33.8.3. a new Dynamometer Hard Stop safety circuit
  - 33.8.4. a new Temperature and RPM safety meters
  - 33.8.5. a new General Electric Solid State Dynamometer Controller in Dynamometer Test Cell #11
  - 33.8.6. old style General Electric Motor- Generator Dynamometer Controller in other Dynamometer Test Cells (to verify that plaintiff knew how to interface to an old style General Electric Motor-Generator Dynamometer Controller contact Michael Delduca at U.S. Environmental Protection Agency 2565 Plymouth Road, Ann Arbor, Michigan 48105)
    - 33.8.6.1. when plaintiff work for DSP Technology, he was assigned to renovate one test cell EPA which required the interfacing to an old style General Electric Motor – Generator Dynamometer Conttoller
  - 33.8.7. a new Meiden AC Dynamometer Controller in other non- General Electric Motor – Generator Dynamometer Controller Test Cells
- 33.9. plaintiff utilized Graysoft Software in conjunction with Autocad Computer Aided Design Software to generate the required PLC Enclosure fabrication prints
- 33.9.1. in other words plaintiff generated all Graysoft Software PLC Enclosure fabrication prints
- 33.10. plaintiff did the equivalent work of multiple full time General Motor employees
- 33.10.1. one of the roles plaintiff performed was the equivalent work of a full time CAD designer
  - 33.10.2. plaintiff did the equivalent work of a full time secretary making the necessary blue prints, keeping prints stored and organized, and distributing prints to the appropriate Dynamometer Test Lab technicians



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- 33.11. plaintiff designed and engineered the software programming of the Programmable Logic Controller including:
  - 33.11.1. the manual push button interface panel in Dynamometer Test Cell #13
  - 33.11.2. converting the Programmable Logic Controller software programming for use with Video Based Man-Machine Interface in later Dynamometer Test Cell renovations
  - 33.11.3. ensuring the Dynamometer Hard Stop safety circuit was Safe prior to allowing the Dynamometer Test Cell could begin the start-up sequence
  - 33.11.4. the Dynamometer Test Cell start-up sequence ensured that
    - 33.11.4.1. the Dynamometer Motor-Generator was enabled prior to the Dynamometer being turned on
    - 33.11.4.2. the Dynamometer Test Cell Ventilation was enabled prior to the Dynamometer being turned on
    - 33.11.4.3. without getting into all the start-up sequence details it is sufficient to note that the PLC software anticipated a specific Dynamometer Test Cell start-up sequence
- 33.12. Specified, ordered, and procured major components
  - 33.12.1. Including PLC processor, PLC housings, and PLC modules
- 33.13. Project management and project coordination of work activity between General Motors Dynamometer Wing salaried personnel, General Motors Emission Wing salaried personnel, software personnel and UAW personnel
- 33.14. Provided detailed startup assistance

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**34. New CPI Front-end Equipment**

- 34.1. Eliminated over one dozen relays by eliminating relay switching for Thermocouple signals
- 34.2. Eliminated thermocouple cold junction heater ovens; thereby, saving electricity and space
- 34.3. Elimination of using an non-standard thermocouple cold junction reference temperature
- 34.4. Reduction from Type-J and Type-K thermocouples to Type-K only; thereby, reducing operator error, and reducing material procurement / storage requirements
- 34.5. Reduction of two thermocouple software calibration curves to one thermocouple calibration curve
- 34.6. Eliminated confusing North / South thermocouple switching
  - 34.6.1. When North end is selected: North T/C = 1 to 10
  - 34.6.2. South T/C = 11 to 20
  - 34.6.3. When South end is selected: North T/C = 11 to 20
  - 34.6.4. South T/C = 1 to 10
- 34.7. Pressure transducers relocated in overhead operators
  - 34.7.1. helped in eliminating of Dynamometer Test Cell Operators Console
  - 34.7.2. elimination of fluid accumulation in pressure transducer sample lines
  - 34.7.3. elimination of long pressure transducer sample lines
- 34.8. Eliminated Dynamometer Test Cell Operator Console
  - 34.8.1. Freed up space for new Sample Conditioning Unit
- 34.9. converted existing low usage closet into an important signal interface closet for new 19 inch rack mountable terminal strips; thereby, eliminating calibration technicians working on hands and knees
- 34.10. Specified and coordinated UAW work activity for seven inch diameter hole core through solid wall
- 34.11. Design and engineering of instrumentation interfacing which included
  - 34.11.1. HP computer / CATS software configuration information

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- 34.11.2. Instrumentation terminal strip interfacing
- 34.11.3. Instrumentation interface cable specification, wire color, cable numbering
- 34.11.4. Interfacing to signal conditioning modules as needed
- 34.11.5. Interfacing to thermocouples, pressure transducers, analog input connectors, and Emissions analysis equipment
- 34.11.6. interfacing to Emissions Analyzers for range sense and range selection control (plaintiff interfaced to Emissions Analyzers range sense and range selection control when plaintiff worked for DSP Technology and was assigned to renovate one test cell renovation for Chrysler – Livonia; contact Thomas Lawrence or David Bjarnesen at Chrysler Corporation 37200 Amrhein, Livonia, Michigan 48150-1108)
- 34.12. Documentation of over 50 pages of instrumentation interfacing
- 34.13. Design and engineering of instrumentation power distribution
  - 34.13.1. Power supply interfacing
  - 34.13.2. Power distribution fuse protection; you could dead short an analog input +24 VDC, +12 VDC, or +5 VDC voltage source at the test cell operators boom and a fuse protected the wiring and power supplies from damage
  - 34.13.3. Visual blown fuse indicators for easy diagnostics
- 34.14. Design and engineering of instrumentation grounding and shielding
- 34.15. Specified, ordered, and procured major components; (verify by contacting Ted Ma-ko-viak the sales representative of the CPI front-end equipment)
  - 34.15.1. Including CPI front-end equipment, CPI terminal barriers, signal conditioning modules, pressure transducers, interface wiring, and electrical connectors
- 34.16. Project management and project coordination of work activity between General Motors Dynamometer Wing salaried personnel, General Motors Emission Wing salaried personnel, software personnel and UAW personnel
- 34.17. Provided detailed startup assisted; (this can be verified by contacting Karl Klida; a General Motors Salaried technician who worked on various CPI Front-end Equipment projects)

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**35. AutoCAD Drawings**

- 35.1. Farris Murray generated the two-dimensional and three-dimensional drawings for the fabrication of the Instrumentation Booms from sheet metal
- 35.2. plaintiff completed "Beginning AutoCAD" at General Motors Institute Engineering & Management Institute; Certificate dated May 18, 1989
- 35.3. When plaintiff completed AutoCAD training, plaintiff designed the 2-dimensional drawings for the electrical connectors interface panels (plural); Interfacing the engine-under-test to the various Dynamometer Test Cell Measurement and Control Systems including:
  - 35.3.1. Type-K thermocouple interface
  - 35.3.2. Engine Coolant and Engine Oil temperature control interface
  - 35.3.3. Auxiliary analog input interface
  - 35.3.4. Auxiliary pulse signal input interface
  - 35.3.5. Engine Over-speed interface
  - 35.3.6. Engine Coolant circulation rate and Engine Oil circulation rate
- 35.4. plaintiff designed all the two-dimensional AutoCAD drawings for fabrication of the electrical connectors interface panels by machine shop personnel
- 35.5. plaintiff designed all the two-dimensional AutoCAD graphics drawings for the Art Work for the electrical connector interface panels text
- 35.6. Once plaintiff completed "Beginning AutoCAD" at General Motors Institute Engineering & Management Institute, a transition from Farris Murray to plaintiff generating all the two-dimensional AutoCAD graphics drawings associated with the new CPI front-end equipment in a Dynamometer Test Cell renovation
- 35.7. Once plaintiff completed "Beginning AutoCAD" at General Motors Institute Engineering & Management Institute, a transition from Farris Murray to plaintiff generating all the two-dimensional AutoCAD graphics drawings associated with the new Programmable Logic Controller and PLC Enclosure in a Dynamometer Test Cell renovation
  - 35.7.1. Including interfacing to:



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- 35.7.2. Dynamometer Hard Stop safety circuit
- 35.7.3. Auxiliary temperature safety meters
- 35.7.4. Engine and Dynamometer RPM safety meters
- 35.7.5. Manual push button Test Cell interface panel
- 35.7.6. Dynamometer Controller
- 35.7.7. Engine Coolant and Engine Oil Temperature Control System
- 35.7.8. Supply and Exhaust Fan controls for Dynamometer Test Cell ventilation and pressure control
- 35.7.9. Motor Control Center
- 35.8. Fuel System controls
- 35.9. plaintiff ran the blue prints and distribute the documentation to the various General Motors Dynamometer Wing salaried personnel, General Motors Emission Wing salaried personnel, software personnel and UAW personnel

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**36. New Instrumentation Booms**

- 36.1. The existing Instrumentation Booms were removed and scrapped
- 36.2. The Instrumentation booms:
  - 36.2.1. provided routing for analog signal interfacing cable from the CPI front-end equipment to the engine-under-test
  - 36.2.2. provided routing for discrete signal interfacing cable
  - 36.2.3. provided routing for Engine Control Module interfacing from the Operator's Control Cabinet to the engine-under-test
  - 36.2.4. provided housing for the Druck pressure transducers
  - 36.2.5. provided housing for the Emissions Analysis Cylinder Distribution Manifold from the engine-under-test to the Dynamometer Wing Emission Sample Conditioning Unit; Emission Wing personnel provided and installed the Emissions Analysis Cylinder Distribution Manifold, the Dynamometer Wing Emission Sample Conditioning Unit
- 36.3. The new Instrumentation Booms had three segregated compartments to reduce electrical noise interference between:
  - 36.3.1. the analog interfacing cable
  - 36.3.2. the discrete signal interfacing cable
  - 36.3.3. the Engine Control Module interfacing from the Operator's Control Cabinet to the engine-under-test
- 36.4. plaintiff specified the Instrumentation Boom compartment segregation
- 36.5. Farris Mur-ray generated the two-dimensional and three-dimensional drawings for the fabrication of the Instrumentation Booms from sheet metal
- 36.6. UAW hourly personnel fabricated, painted, and installed the Instrumentation Booms; (to verify plaintiff worked with UAW personnel contact Bob Welsh; plaintiff knew Bob Welsh as the highest ranking UAW representative in GM Technical Center, Engineering Building, Warren, Michigan from approximately CY1989 to CY1995)
- 36.7. GM salaried Test Cell Operator installed the appropriate Engine Control Module equipment and interfacing for the engine-under-test

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- 36.8. plaintiff completed "Beginning AutoCAD" at General Motors Institute Engineering & Management Institute; Certificate dated May 18, 1989
- 36.9. When plaintiff completed AutoCAD training plaintiff did the 2-dimensional drawings for the electrical connectors interface panels (plural); Interfacing the engine-under-test to the various Dynamometer Test Cell Measurement and Control Systems including:
- 36.9.1. Type-K thermocouple interface
  - 36.9.2. Engine Coolant and Engine Oil temperature control interface
  - 36.9.3. Auxiliary analog input interface
  - 36.9.4. Auxiliary pulse signal input interface
  - 36.9.5. Engine Over-speed interface
  - 36.9.6. Engine Coolant circulation rate and Engine Oil circulation rate
- 36.10. plaintiff designed (with AutoCAD) all the two-dimensional drawings for fabrication by machine shop personnel
- 36.11. plaintiff designed with AutoCAD all the two-dimensional graphics drawings for the Art Work for the electrical connector interface panels text
- 36.12. Since UAW Hourly personnel fabricated the Instrumentation Booms from sheet metal no procurement of major components from outside vendors / suppliers was necessary
- 36.12.1. This is important to note because from plaintiff long list of Project Management experience he has proved to be successful with working with Outside Construction Contractors, GM suppliers, GM salaried personnel, and UAW hourly personnel
- 36.13. Project management and project coordination of work activity between General Motors Emission Wing salaried personnel, General Motors Dynamometer Wing salaried personnel, and UAW hourly personnel

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**37. Humidity and Ambient Temperature Sensor per Test Cell**

- 37.1. in the Emission Wing Renovation plaintiff selected EG&G Dew Point Meter and Ambient Temperature Sensor
- 37.2. the Dynamometer Wing renovation was considering using also EG&G Dew Point Meters and Ambient Temperature Sensors
- 37.3. plaintiff determined that there was a humidity gradient in the Dynamometer Wing; therefore, two EG&G Dew Point Meters and Ambient Temperature Sensors would not suffice in covering the entire Dynamometer Wing
- 37.4. plaintiff mathematically determined that lower cost Ambient Temperature Sensors and Relative Humidity sensors could be used instead of the more expensive EG&G Dew Point Meter and Ambient Temperature Sensor
- 37.5. one Ambient Temperature Sensors and Relative Humidity sensor per Dynamometer Test Cell (approximately 20 units total) approximately the same cost of (2) EG&G Dew Point Meter and Ambient Temperature Sensors
- 37.6. plaintiff determined the conversion algorithm from (Percent Relative Humidity and Ambient Temperature) to Dew Point for implementation in Dynamometer Test Cell Computer



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**38. Dynamometer Test Cell #13 Renovation**

- 38.1. The first modern, integrated Dynamometer Test Cell renovation at the General Motors Technical Center; completed in CY1990
- 38.2. plaintiff designed, engineered, and incorporated new CPI front-end equipment into Dynamometer Test Cell #13 renovation; see above in resume for details
- 38.3. plaintiff designed, engineered, and incorporated new Programmable Logic Controller and PLC Enclosure into Dynamometer Test Cell #13 renovation; see above in resume for details
  - 38.3.1. Including interfacing to Dynamometer Hard Stop safety circuit
  - 38.3.2. Auxiliary temperature safety meters
  - 38.3.3. Engine and Dynamometer RPM safety meters
  - 38.3.4. Manual push button Test Cell interface panel
  - 38.3.5. General Electric Solid State Dynamometer Controller
  - 38.3.6. Engine Coolant and Engine Oil Temperature Control System
  - 38.3.7. Supply and Exhaust Fan for Dynamometer Test Cell ventilation and pressure control
  - 38.3.8. Existing Motor Control Center
- 38.4. Aaron Trammel fabricated the Fuel System control enclosure that housed the Fuel System control solenoids
- 38.5. plaintiff incorporated new Instrumentation Booms into Dynamometer Test Cell #13 renovation; see above in resume for details
- 38.6. plaintiff incorporated new Engine Coolant and Engine Oil Process Control into Dynamometer Test Cell #13 renovation; see above in resume for details
- 38.7. plaintiff designed, engineered, and incorporated the first Dynamometer Test Cell ventilation and pressure control system into Dynamometer Test Cell #13
- 38.8. plaintiff new Druck Pressure Transducers into Dynamometer Test Cell #13 renovation; see above in resume for details
  - 38.8.1. after over one year the Druck Pressure Transducers remained within calibration specifications; a significant maintenance time and cost savings

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- 38.9. plaintiff takes no credit for Cell #13 Motor Control Center; this was a piece of extra equipment from the Dynamometer Wing blend-house renovation project
- 38.10. Specified, ordered, and procured major components associated with:
- 38.10.1. new CPI Front-end equipment
  - 38.10.2. new Programmable Logic Controller hardware
  - 38.10.3. new Engine Coolant and Engine Oil Process Control equipment
  - 38.10.4. new Honeywell UDC3000 Process Controllers
- 38.11. Generated the required documentation for the design of:
- 38.11.1. new CPI Front-end equipment
  - 38.11.2. new Programmable Logic Controller hardware
  - 38.11.3. new Programmable Logic Controller software programming
  - 38.11.4. new Engine Coolant and Engine Oil Process Control equipment
  - 38.11.5. new Honeywell UDC3000 Process Controllers configuration
    - 38.11.5.1. one configuration for Engine Coolant Process Control
    - 38.11.5.2. one configuration for Engine Oil Process Control
    - 38.11.5.3. one configuration for Test Cell Ventilation and pressure control
  - 38.11.6. Supply Fan Variable Frequency Drive configuration
  - 38.11.7. Exhaust Fan Variable Frequency Drive configuration
  - 38.11.8. existing Motor Control Center
- 38.12. Project management and project coordination of work activity between General Motors Dynamometer Wing salaried personnel, General Motors Emission Wing salaried personnel, software personnel and UAW personnel by writing project activity timeline utilizing Timeline project management software
- 38.12.1. verify by contacting Bob Welsh; plaintiff knew Bob Welsh as the highest ranking UAW representative in GM Technical Center, Engineering Building, Warren, Michigan from approximately CY1989 to CY1995)
- 38.13. Provided detailed startup assisted for:
- 38.13.1. new CPI Front-end equipment (can be verified with Karl Klida)
  - 38.13.2. new Programmable Logic Controller hardware

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- 38.13.3. new Programmable Logic Controller software programming
- 38.13.4. new Engine Coolant and Engine Oil Process Control equipment (can be verified with John Carver or Dave Van-poel-e-vor-de) new Engine Coolant and Engine Oil Process Control equipment
- 38.13.5. new Honeywell UDC3000 Process Controllers configuration
  - 38.13.5.1. one configuration for Engine Coolant Process Control
  - 38.13.5.2. one configuration for Engine Oil Process Control
  - 38.13.5.3. one configuration for Test Cell Ventilation and pressure control
- 38.13.6. Supply Fan Variable Frequency Drive configuration
- 38.13.7. Exhaust Fan Variable Frequency Drive configuration
- 38.13.8. existing Motor Control Center
- 38.14. first modern and integrated Dynamometer Test Cell renovation
  - 38.14.1. Prior to plaintiff renovating Dynamometer Test Cells, Dynamometer Test Cell engineers and managers would come-and-go readily
    - 38.14.1.1. Phil Mo-han, Aaron Shin, Jim K-hill, Dave Thacher, Clark Bell, Steve Kaatz
  - 38.14.2. Prior to plaintiff renovating a Dynamometer Test Cell basically consisted of updating a piece of equipment (like a new exhaust fan) and maybe a fresh coat of paint.
  - 38.14.3. over time Dynamometer Test Cells were becoming a crows nest of one-of-a-kind equipment
  - 38.14.4. Dynamometer Test Cell #13 honestly looked like a new Dynamometer Test Cell looks new!
- 38.15. Prior to plaintiff renovating Dynamometer Test Cell #13, plaintiff knows of nobody in General Motors Corporation designing, engineering, and project managing an entire Dynamometer Test Cell renovation in-house; a major project like this would have been outsourced to a company like Sverdrup (now Jacobs Engineering) and would have cost General Motors hundreds of thousands of dollars; plaintiff did the complete job for a fraction of the cost

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- 38.16. When plaintiff renovated Dynamometer Test Cell #13 in CY1990 the modern Personal Computer were in their infancy – plaintiff did the work normally associated with approximately nine people
- 38.16.1. one Instrumentation engineer
- 38.16.2. one Electrical engineer; the reader has to remember that in the late-1980's a Personal Computer might only have 640 to 1,024 kilobytes of memory ( over 1000 times smaller than modern Personal Computers); therefore, each engineering major application like programming the Programmable Logic Controllers might have its own stand-alone programming device
- 38.16.3. one Process Controls engineer; the reader has to remember that in the late-1980's the modern 3 GHz Personal Computer with 2 Gigabyte plus of memory did not exist; therefore, each engineering discipline would have been assigned to different individuals
- 38.16.4. one Mechanical engineer
- 38.16.5. one Project Manager
- 38.16.6. one AutoCAD designer and one technical designers to generate the documentation
- 38.16.7. one secretary to copy and distribute the documentation; the reader has to remember that in the late-1980's the modern Microsoft multi-application software was not deployed in Engineering Building Dynamometer Wing (Microsoft Windows 95 equals CY1995); therefore, converting 50 plus pages of CPI Front-end Equipment spreadsheet documentation from Portrait printout to Landscape printout was a major task in late-1980's
- 38.16.8. one to two technicians for start-up of the equipment
- 38.17. plaintiff asked to go to personnel
- 38.17.1. General Motors personnel asks plaintiff a series of questions
- 38.17.2. people are falsely claiming to be plaintiff boss
- 38.17.2.1. General Motors asks => Was Don Nagy ever your boss? plaintiff reply =>  
Never



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38.17.2.2. General Motors asks => Was Chris Killien ever your boss? plaintiff reply  
=> Never

38.17.2.3. General Motors asks => Was Paul Durrenberg ever your boss? plaintiff  
reply => Yes (Paul Durrenberg was plaintiff supervisor when plaintiff was a  
High School co-op student; Paul Durrenberg was never plaintiff boss when  
plaintiff hired into General Motors as an engineer)

38.17.3. General Motors asks plaintiff – are you ready for 8<sup>th</sup> level???; plaintiff  
responded by saying give him one more year

38.17.3.1. please note General Motors never called plaintiff back to personnel for an  
8<sup>th</sup> level or 9<sup>th</sup> level promotion

38.17.3.2. in retrospect by asking plaintiff are you ready for 8<sup>th</sup> level General Motors  
still did not think that plaintiff had earned his 8<sup>th</sup> level

38.17.3.3. in retrospect plaintiff did the correct thing by not accepting an 8<sup>th</sup> level  
position since plaintiff earned his 8<sup>th</sup> level with the Emission Wing Renovation  
and plaintiff earned his 9<sup>th</sup> level with Dynamometer Test Cell #13 renovation

38.17.3.4. plaintiff should have gone from 7<sup>th</sup> level to 9<sup>th</sup> level (and received a 1.30 X  
1.30 equals 1.69) and received a 69 percent pay increase at minimum

38.17.3.5. in retrospect plaintiff should have received a bonus (over and above his  
pay raise) for each Dynamometer Test Cell Renovation he completed since a  
major project like this would have been normally outsourced to a company like  
Sverdrup (now Jacobs Engineering) and would have cost General Motors  
hundreds of thousands of dollars more; thereby, saving General Motors  
hundreds of thousands of dollars in Dynamometer Test Cell renovation costs

38.17.3.6. more pay discrimination evidence later in this resume

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**39. Dynamometer Test Cell #3 Renovation**

- 39.1. plaintiff designed, engineered, and incorporated new CPI front-end equipment into Dynamometer Test Cell #3 renovation; see above in resume for details
- 39.2. plaintiff designed, engineered, and incorporated new Programmable Logic Controller and PLC Enclosure into Dynamometer Test Cell #3 renovation; see New PLC above in resume for additional details
  - 39.2.1. Including interfacing to Dynamometer Hard Stop safety circuit
  - 39.2.2. Auxiliary temperature safety meters
  - 39.2.3. Engine and Dynamometer RPM safety meters
  - 39.2.4. Manual push button Test Cell interface panel
  - 39.2.5. Meiden AC Solid State Dynamometer Controller
  - 39.2.6. Engine Coolant and Engine Oil Temperature Control System
  - 39.2.7. Supply and Exhaust Fan controls for Dynamometer Test Cell ventilation and pressure control
  - 39.2.8. Existing Motor Control Center
- 39.3. Aaron Trammel fabricated the Fuel System control enclosure
- 39.4. plaintiff incorporated new Instrumentation Booms into Dynamometer Test Cell #3 renovation; see above in resume for details
- 39.5. plaintiff designed, engineered, and incorporated new Engine Coolant and Engine Oil Process Control into Dynamometer Test Cell #03 renovation; see above for details
- 39.6. plaintiff designed and engineered Dynamometer Test Cell ventilation and pressure control system for Dynamometer Test Cell #03
- 39.7. plaintiff incorporated new Druck Pressure Transducers into Dynamometer Test Cell #3 renovation; see above in resume for details
- 39.8. Cell #03 Motor Control Center was a piece of existing equipment; Cell #03 Motor Control Center replace with an Allen-Bardley Motor Control Center at a future date
- 39.9. Specified, ordered, and procured major components associated with:
  - 39.9.1. new CPI Front-end equipment
  - 39.9.2. new Programmable Logic Controller hardware

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- 39.9.3. new Engine Coolant and Engine Oil Process Control equipment
- 39.9.4. new Honeywell UDC3000 Process Controllers
- 39.10. Generated the required documentation for the design of:
  - 39.10.1. over 50 pages of documentation for new CPI Front-end equipment
  - 39.10.2. new Programmable Logic Controller hardware
  - 39.10.3. new Programmable Logic Controller software programming
  - 39.10.4. new Engine Coolant and Engine Oil Process Control equipment
  - 39.10.5. new Honeywell UDC3000 Process Controllers configuration
    - 39.10.5.1. one configuration for Engine Coolant Process Control
    - 39.10.5.2. one configuration for Engine Oil Process Control
    - 39.10.5.3. one configuration for Test Cell Ventilation and pressure control
  - 39.10.6. Supply Fan Variable Frequency Drive configuration
  - 39.10.7. Exhaust Fan Variable Frequency Drive configuration
  - 39.10.8. existing Motor Control Center
- 39.11. Project management and project coordination of work activity between General Motors Dynamometer Wing salaried personnel, General Motors Emission Wing salaried personnel, software personnel and UAW personnel
- 39.12. Provided detailed startup assisted for:
  - 39.12.1. new CPI Front-end equipment
  - 39.12.2. new Programmable Logic Controller hardware
  - 39.12.3. new Programmable Logic Controller software programming
  - 39.12.4. new Engine Coolant and Engine Oil Process Control equipment
  - 39.12.5. new Honeywell UDC3000 Process Controllers configuration
    - 39.12.5.1. one configuration for Engine Coolant Process Control
    - 39.12.5.2. one configuration for Engine Oil Process Control
    - 39.12.5.3. one configuration for Test Cell Ventilation and pressure control
  - 39.12.6. Supply Fan Variable Frequency Drive configuration
  - 39.12.7. Exhaust Fan Variable Frequency Drive configuration
- 39.13. plaintiff reward for renovating Dynamometer Test Cell #3 => Basically nothing

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**40. Natural Gas Compressor**

- 40.1. the Natural Gas Compressor project is an example of plaintiff simultaneously designing, engineering, and / or project managing other Dynamometer Test Cell projects while simultaneously continuing to renovate other Dynamometer Test Cells
  - 40.1.1. plaintiff also made improvements to Dynamometer Test Cell renovations
- 40.2. plaintiff wrote the specifications for the procurement of one Natural Gas compressor
  - 40.2.1. Natural Gas compressor had to meet Class 1, Division 1, Group D explosion-proof electrical requirements
  - 40.2.2. Natural Gas compressor was to be located outside of the Dynamometer Test Cell exposed to the Summer and Winter temperature conditions
  - 40.2.3. one unique major component of the Natural Gas compressor system was a large Natural Gas dryer used to remove the water vapor from the Natural Gas since the unit was exposed to the winter cold
  - 40.2.4. Dynamometer Test Cell personnel specified Natural Gas compressor pressure (X PSIG) and flow (X CFM) requirements; this information can be verified with Dynamometer Test Cell manager Jim Currie
- 40.3. plaintiff provided detailed project management / leadership by working with the potential Natural Gas compressor suppliers to continuously refine the specifications, reduce the number of potential suppliers, and answer questions
- 40.4. plaintiff calculated and specified a new two inch Natural Gas supply line to be installed from the Engineering Building basement near the North Lobby to exterior of Dynamometer Wing near Dynamometer Test Cell #2 / #3 area
- 40.5. Project management and project coordination of work activity between General Motors Dynamometer Wing salaried personnel and UAW personnel
- 40.6. Provided detailed startup assisted as needed
- 40.7. plaintiff reward for the Natural Gas compressor project => basically nothing



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**41. Dynamometer Vault Spray Renovation**

- 41.1. in a Dynamometer Test Cell the engine-under-test exhaust is directed into a large basement vault (over 3 feet wide X over 10 feet long X over 7 feet tall) in a near outside barometric pressure environment
- 41.2. cooling the Dynamometer Vault from the heat generated by the engine-under-test consisted of ventilation air and spraying recirc water
- 41.3. What is recirc water? Imagine a washing machine where city water is the clean water a person puts into the washer to clean his clothes. Recirc water is the dirty discharge water from the washer. The recirc water is recirculated over and over again; thereby, getting dirtier over time.
- 41.4. The combination of the corrosive exhaust gas from the engine-under-test and the recirc water spray caused the concrete dynamometer vaults to deteriorate (literally start to crumble apart) over time
- 41.5. please note that the Dynamometer Test Cell Operator has to work in the Dynamometer Vault when the engine-under-test is not running to properly suspend the engine-under-test exhaust system; this makes for a dirty and potentially unhealthy work environment
- 41.6. plaintiff converted the Dynamometer Vault spray from recirc water to clean city water to make for a cleaner and healthier work environment
- 41.7. using the Programmable Logic Controller the Dynamometer Vault spray could be turned off (thus saving on water consumption) with the option of manually turning on the Dynamometer Vault spray by the Dynamometer Test Cell Operator if needed
- 41.8. please note: later in the resume plaintiff will replace four Aux. Temperature Safety Meters with a Modicon Analog Input Module; as plaintiff was leaving General Motors in CY1995 he was preparing to further automate the Dynamometer Vault spray by monitoring the Dynamometer Vault temperature with an averaging RTP temperature sensor

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**42. Designed a Custom Pulse Circuit Board**

- 42.1. Kevin, a black male, from Tom Slaughter's electronics group one day came to plaintiff office and asked plaintiff to design a custom pulse delay circuit using IC (integrated circuit) chips
- 42.2. plaintiff designed the circuit using trigger delay chips
- 42.3. plaintiff generated the necessary documentation and forwarded the documentation to Kevin
- 42.4. this proves plaintiff could design electronic circuits; therefore, his depth of skills extended beyond Emission and Dynamometer Laboratory renovations
- 42.5. this proves plaintiff would help black people; despite the fact General Motors race baited plaintiff on many occasions
- 42.6. plaintiff reward for designing this custom pulse delay circuit => basically nothing

**43. PSI High Speed and High Channel Count Pressure Measurement System for Turbine Testing (Cell #04 / #05 area)**

- 43.1. plaintiff procured a PSI High Speed and High Channel Count Pressure Measurement System for Turbine Testing (Cell #04 / #05 area)
- 43.2. EDS was responsible for integrating the PSI High Speed and High Channel Count Pressure Measurement System into the standard Dynamometer Wing CATS System; contact Chris Killeen to verify
- 43.3. EDS never proved to plaintiff it could integrate the PSI High Speed and High Channel Count Pressure Measurement System into the standard Dynamometer Wing CATS System
- 43.4. the PSI High Speed and High Channel Count Pressure Measurement System mysteriously disappeared

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**44. Chassis Dynamometer Renovation**

- 44.1. The Chassis Dynamometer located in the Dynamometer Wing was similar to the Emission Test Sites located in the Engineering Building Emissions Wing but instead of having a twin roll electric dynamometer, the Chassis Dynamometer had a single 48 inch diameter roll electric dynamometer
- 44.2. plaintiff designed and engineered the Supply and Exhaust Fan controls for Chassis Dynamometer Test Cell ventilation control; the most noticeable difference between the Supply and Exhaust fan controls in the Chassis Dynamometer Test Cell and a standard Dynamometer Test Cell renovation was the size of the motors involved
  - 44.2.1. standard Dynamometer Test Cell Supply Fan motor => 7 ½ H.P.
  - 44.2.2. Chassis Dynamometer Test Cell Supply Fan motor => 250 H.P.
  - 44.2.3. standard Dynamometer Test Cell Exhaust Fan motor => 7 ½ H.P. to 15 H.P.
  - 44.2.4. Chassis Dynamometer Test Cell Exhaust Fan motor => 75 H.P.
- 44.3. plaintiff designed, engineered, and incorporated new Programmable Logic Controller and PLC Enclosure into Chassis Dynamometer renovation similar to Dynamometer Test Cell #13 renovation; adjusted for Chassis Dynamometer specific requirements
- 44.4. plaintiff designed and engineered new heat lamp process controls; heat lamps are not part of a typical Emission Test Site
- 44.5. plaintiff designed new operator's console and specified control room modifications
- 44.6. Bruce Johnson (TSGF) was responsible for extending the Chassis Dynamometer Test Cell North
- 44.7. Terri Hostetter recommended using SWEO power controller for the 48 inch diameter roll electric dynamometer



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**45. Dynamometer Test Cell #07 Renovation with New Hemi-anechoic Chamber**

- 45.1. Dynamometer Test Cell #07 was used for measuring engine noise
- 45.2. When plaintiff renovated Dynamometer Test Cell #07 the Test Cell was single-ended and motored the engine-under-test; therefore, Dynamometer Test Cell #07 was more limited in scope as compared to Dynamometer Test Cell #13 or Dynamometer Test Cell #03
- 45.3. Nevertheless Dynamometer Test Cell #07 had one highly unique aspect to its renovation, the renovation included the installation of a New Hemi-anechoic Chamber
- 45.4. To help the reader understand what a Hemi-anechoic Chamber is try to imagine standing alone in an open field in the middle of Kansas or Nebraska; the sounds you make are only reflected by the ground below your feet and no sound reflections from any other direction; a Hemi-anechoic Chamber tries to simulate the experience standing alone in an open field in the middle of Kansas or Nebraska
- 45.5. plaintiff designed, engineered, and incorporated new CPI front-end equipment into Dynamometer Test Cell #07 renovation; approximately half the size of Cell #13 renovation
- 45.6. plaintiff designed, engineered, and incorporated new Programmable Logic Controller into Dynamometer Test Cell #07 renovation; approximately half the size of Cell #13 renovation
  - 45.6.1. Including interfacing to:
  - 45.6.2. Dynamometer Hard Stop safety circuit
  - 45.6.3. Auxiliary temperature safety meters
  - 45.6.4. Engine and Dynamometer RPM safety meters
  - 45.6.5. Manual push button Test Cell interface panel
  - 45.6.6. old style General Electric Motor-Generator Dynamometer Controller
  - 45.6.7. Engine Coolant and Engine Oil Temperature Control System
  - 45.6.8. Supply and Exhaust Fan controls for Dynamometer Test Cell ventilation and pressure control
- 45.7. Existing Motor Control Center



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- 45.8. No new Instrumentation Booms into Dynamometer Test Cell #07 renovation
- 45.9. plaintiff designed, engineered, and incorporated new Engine Coolant and Engine Oil Process Control into Dynamometer Test Cell #07 renovation; approximately half the size of Cell #13 renovation
- 45.10. plaintiff designed, engineered Dynamometer Test Cell ventilation and pressure control system into Dynamometer Test Cell #07
- 45.11. plaintiff designed, engineered, and incorporated new Druck Pressure Transducers into Dynamometer Test Cell #07 renovation; approximately half the size of Cell #13 renovation
- 45.12. plaintiff designed and specified new Operator's Console; same supplier as Chassis Dynamometer renovation
- 45.13. Specified, ordered, and procured major components associated with:
  - 45.13.1. new Hemi-anechoic Chamber
  - 45.13.2. new Operator's Console
  - 45.13.3. new CPI Front-end equipment
  - 45.13.4. new Programmable Logic Controller hardware
  - 45.13.5. new Engine Coolant and Engine Oil Process Control equipment
  - 45.13.6. new Honeywell UDC3000 Process Controllers
- 45.14. Generated the required documentation for the design of (approximately half the size of Cell #13 renovation)
  - 45.14.1. new CPI Front-end equipment
  - 45.14.2. new Programmable Logic Controller hardware
  - 45.14.3. new Programmable Logic Controller software programming
  - 45.14.4. new Engine Coolant and Engine Oil Process Control equipment
  - 45.14.5. new Honeywell UDC3000 Process Controllers configuration as required
  - 45.14.6. Supply Fan Variable Frequency Drive configuration
  - 45.14.7. Exhaust Fan Variable Frequency Drive configuration
  - 45.14.8. existing Motor Control Center

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- 45.15. Project management and project coordination of work activity between supplier of Hemi-anechoic Chamber, General Motors Dynamometer Wing salaried personnel, General Motors Emission Wing salaried personnel, software personnel and UAW personnel
- 45.16. Provided detailed startup assisted for:
- 45.16.1. new CPI Front-end equipment (can be verified with Karl Klida)
  - 45.16.2. new Programmable Logic Controller hardware
  - 45.16.3. new Programmable Logic Controller software programming
  - 45.16.4. new Engine Coolant and Engine Oil Process Control equipment
  - 45.16.5. new Honeywell UDC3000 Process Controllers configuration for Test Cell Ventilation and pressure control
  - 45.16.6. Supply Fan Variable Frequency Drive configuration
  - 45.16.7. Exhaust Fan Variable Frequency Drive configuration
  - 45.16.8. existing Motor Control Center
- 45.17. to help the reader to understand the magnitude of Dynamometer Test Cell #07 Renovation with New Hemi-anechoic Chamber Compare the reader would have to compare Cell #07 with Cell #06 (a Hemi-anechoic Chamber designed and installed in-house by General Motors prior to plaintiff working in the Dynamometer Wing)
- 45.18. contact Steve Kaatz and Don Do-zon-berry to verify Dynamometer Test Cell #07 Renovation with New Hemi-anechoic Chamber
- 45.19. plaintiff reward for renovating Dynamometer Test Cell #07 => Basically nothing

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**46. Dynamometer Test Cell #06 Renovation with New Control Consoles**

- 46.1. Dynamometer Test Cell #06 was used for measuring engine noise
- 46.2. When plaintiff renovated Dynamometer Test Cell #06 the Test Cell was single-ended Dynamometer Test Cell
- 46.3. Dynamometer Test Cell #06 renovation was more limited in scope than compared to Dynamometer Test Cell #07
- 46.4. the renovation included the reuse of an existing General Motors design and General Motors built Hemi-anechoic Chamber
- 46.5. plaintiff designed, engineered, and incorporated new Programmable Logic Controller into Dynamometer Test Cell #06 renovation; approximately half the size of Cell #13 renovation
  - 46.5.1. Including interfacing to:
  - 46.5.2. Dynamometer Hard Stop safety circuit
  - 46.5.3. Auxiliary temperature safety meters
  - 46.5.4. Engine and Dynamometer RPM safety meters
  - 46.5.5. Manual push button Test Cell interface panel
  - 46.5.6. old style General Electric Motor-Generator Dynamometer Controller
  - 46.5.7. Engine Coolant and Engine Oil Temperature Control System
  - 46.5.8. Supply and Exhaust Fan controls for Dynamometer Test Cell ventilation and pressure control
- 46.6. Existing Motor Control Center
- 46.7. No new Instrumentation Booms into Dynamometer Test Cell #06 renovation
- 46.8. plaintiff designed, engineered, and incorporated new Engine Coolant and Engine Oil Process Control into Dynamometer Test Cell #06 renovation; approximately half the size of Cell #13 renovation
- 46.9. plaintiff designed and specified new Operator's Console; same supplier as Chassis Dynamometer renovation and Dynamometer Test Cell #07 renovation
- 46.10. Specified, ordered, and procured major components associated with
  - 46.10.1. new Operator's Console

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- 46.10.2. new Programmable Logic Controller hardware
- 46.10.3. new Engine Coolant and Engine Oil Process Control equipment
- 46.10.4. new Honeywell UDC3000 Process Controllers
- 46.11. Generated the required documentation for the design of (approximately half the size of Cell #13 renovation)
  - 46.11.1. new Programmable Logic Controller hardware
  - 46.11.2. new Programmable Logic Controller software programming
  - 46.11.3. new Engine Coolant and Engine Oil Process Control equipment
  - 46.11.4. new Honeywell UDC3000 Process Controllers configuration as required
  - 46.11.5. existing Motor Control Center
- 46.12. Project management and project coordination of work activity between supplier of General Motors Dynamometer Wing salaried personnel, General Motors Emission Wing salaried personnel, software personnel and UAW personnel
- 46.13. Provided detailed startup assisted for
  - 46.13.1. new Programmable Logic Controller hardware
  - 46.13.2. new Programmable Logic Controller software programming
  - 46.13.3. new Engine Coolant and Engine Oil Process Control equipment
  - 46.13.4. new Honeywell UDC3000 Process Controllers configuration as required
  - 46.13.5. existing Motor Control Center
- 46.14. contact Steve Kaatz and Don Do-zon-berry to verify Dynamometer Test Cell #06 renovation



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**47. New Exhaust Fans**

47.1. Prior to plaintiff, renovating a Dynamometer Test Cell basically consisted of updating one piece of equipment (like a new exhaust fan), and maybe a fresh coat of paint. Since Dynamometer Test Cell engineers and managers would come-and-go on a steady basis (Phil Mohan, Aaron Shin, Jim K-hill, Dave Thacher, Clark Bell, Steve Kaatz) after awhile the Dynamometer Test Cells were becoming a crows nest of one-of-a-kind of new equipment

47.2. When plaintiff designed, engineered, and project managed Dynamometer Test Cell #13 renovation you could honestly say - this Dynamometer Test Cell looks new!

47.2.1. plaintiff takes no credit for the initial Cell #13 Exhaust Fan and Cell #03 Exhaust Fan - these were existing pieces of equipment;

47.3. Beginning approximately with Dynamometer Test Cell #07 renovation, plaintiff designed and specified all new Exhaust Fans for the all the Dynamometer Wing Test Cells

47.3.1. plaintiff specified and procured approximately 18 Exhaust Fans

**48. EDS never proved to plaintiff Emissions Range Sense and Selection control using CATS**

48.1. plaintiff provided design, engineering, detailed interfacing, and detailed documentation between the New CPI Front-end equipment and the Dynamometer Wing Emissions Analyzers for range sense and range selection control

48.2. to verify that plaintiff knew the hardware requirements for interfacing to Emissions Analyzers for range sense and range selection control contact Thomas Lawrence or David Bjarnesen at Chrysler Corporation 37200 Amrhein, Livonia, Michigan 48150-1108; while working for DSP Technology, plaintiff was assigned to renovate one test cell renovation for Chrysler - Livonia

48.3. EDS was responsible for the software design and engineering for implementing range sense and range selection control between the New CPI Front-end equipment and the Dynamometer Wing Emissions Analyzers

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48.4. EDS never proved to plaintiff the software implementation of range sense and range selection control between the New CPI Front-end equipment and the Dynamometer Wing Emissions Analyzers

48.5. when EDS could not prove the software implementation range sense and range selection control between the New CPI Front-end equipment and the Dynamometer Wing Emissions Analyzers the project would mysteriously disappear

**49. New Dynamometer Wing Ground Wire**

49.1. the Engineering Building Dynamometer Wing electrical grounding was a crows nest of electrical grounding schemes

49.1.1. Dynamometer Basement 480 VAC bus grounding

49.1.2. Dynamometer grounding

49.1.3. Mech Box grounding

49.1.4. General 120 VAC power outlets and lighting grounding

49.1.5. Instrumentation grounding

49.1.6. Dynamometer Bedplate grounding

49.1.7. Engine-under-test grounding

49.2. plaintiff designed a custom Dynamometer Wing Ground Wire scheme to begin the process of elimination the crows nest of electrical grounding schemes as each Dynamometer Test Cell was renovated

49.3. plaintiff would consider his Dynamometer Wing Ground Wire scheme his own unique / priority design

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**50. Dynamometer Test Cell #11 Renovation**

- 50.1. plaintiff designed, engineered, and incorporated new CPI front-end equipment into Dynamometer Test Cell #11 renovation; see above in resume for details
- 50.2. plaintiff designed, engineered, and incorporated new Programmable Logic Controller and PLC Enclosure into Dynamometer Test Cell #11 renovation; see New PLC above in resume for additional details
  - 50.2.1. Including interfacing to:
  - 50.2.2. Dynamometer Hard Stop safety circuit
  - 50.2.3. Auxiliary temperature safety meters
  - 50.2.4. Engine and Dynamometer **RPM** safety meters
  - 50.2.5. Modicon Panelmate 2000 Video Based Man-Machine Interface
  - 50.2.6. Meiden AC Solid State Dynamometer Controller
  - 50.2.7. Engine Coolant and Engine Oil Temperature Control System
  - 50.2.8. Supply and Exhaust Fan controls for Dynamometer Test Cell ventilation and pressure control
  - 50.2.9. New Motor Control Center
- 50.3. Aaron Trammel fabricated the Fuel System control enclosure that housed the Fuel System control solenoids
- 50.4. plaintiff incorporated new Instrumentation Booms into Dynamometer Test Cell #11 renovation; see resume above for details
- 50.5. plaintiff designed, engineered, and incorporated new Engine Coolant and Engine Oil Process Control into Dynamometer Test Cell #11 renovation; see resume above for details
- 50.6. plaintiff designed, engineered Dynamometer Test Cell ventilation and pressure control system into Dynamometer Test Cell #11
- 50.7. plaintiff designed, engineered, and incorporated new Druck Pressure Transducers into Dynamometer Test Cell #11 renovation; see resume above for details
- 50.8. New Allen-Bardley Motor Control Center
- 50.9. Specified, ordered, and procured major components associated with:

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- 50.9.1. new CPI Front-end equipment
- 50.9.2. new Programmable Logic Controller hardware
- 50.9.3. new Modicon Panelmate Video Based Man-Machine Interface
- 50.9.4. new Engine Coolant and Engine Oil Process Control equipment
- 50.9.5. new Honeywell UDC3000 Process Controllers
- 50.9.6. new Allen-Bradley Motor Control Center
- 50.10. Generated the required documentation for the design of:
  - 50.10.1. over 50 pages of documentation for new CPI Front-end equipment
  - 50.10.2. new Programmable Logic Controller hardware
  - 50.10.3. new Programmable Logic Controller software programming
  - 50.10.4. new Modicon Panelmate 2000 Video Based Man-Machine Interface
  - 50.10.5. new Engine Coolant and Engine Oil Process Control equipment
  - 50.10.6. new Honeywell UDC3000 Process Controllers configuration
    - 50.10.6.1. one configuration for Engine Coolant Process Control
    - 50.10.6.2. one configuration for Engine Oil Process Control
    - 50.10.6.3. one configuration for Test Cell Ventilation and pressure control
  - 50.10.7. Supply Fan Variable Frequency Drive configuration
  - 50.10.8. Exhaust Fan Variable Frequency Drive configuration
  - 50.10.9. Motor Control Center
- 50.11. Project management and project coordination of work activity between General Motors Dynamometer Wing salaried personnel, General Motors Emission Wing salaried personnel, software personnel and UAW personnel
- 50.12. Provided detailed startup assisted for:
  - 50.12.1. new CPI Front-end equipment
  - 50.12.2. new Programmable Logic Controller hardware
  - 50.12.3. new Programmable Logic Controller software programming
  - 50.12.4. new Modicon Panelmate 2000 Video Based Man-Machine Interface
  - 50.12.5. new Engine Coolant and Engine Oil Process Control equipment
  - 50.12.6. new Honeywell UDC3000 Process Controllers configuration



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- 50.12.6.1. one configuration for Engine Coolant Process Control
- 50.12.6.2. one configuration for Engine Oil Process Control
- 50.12.6.3. one configuration for Test Cell Ventilation and pressure control
- 50.12.7. Supply Fan Variable Frequency Drive configuration
- 50.12.8. Exhaust Fan Variable Frequency Drive configuration
- 50.12.9. Motor Control Center
- 50.13. plaintiff reward for renovating Dynamometer Test Cell #11 => Basically nothing
- 51. Modicon Panelmate 2000 Video Based Man-Machine Interface**
  - 51.1. starting in approximately CY2002 plaintiff transitioned from a Manual push button Test Cell interface panel to a Modicon Panelmate 2000 Video Based Man-Machine Interface
  - 51.2. the Modicon Panelmate 2000 communicated with the Programmable Logic Controller via serial communication
    - 51.2.1. as compared to discrete wiring between the Manual push button Test Cell interface panel and the Programmable Logic Controller
    - 51.2.2. saving approximately 64 Input / Output points of discrete wiring between the Manual push button Test Cell interface panel and the Programmable Logic Controller
  - 51.3. the Modicon Panelmate 2000 Video Based Man-Machine Interface now can fit into the Dynamometer Test Cell Operators Console
    - 51.3.1. previous versions of Modicon Panelmate products were to big for the Dynamometer Test Cell Operators Console
  - 51.4. the Modicon Panelmate 2000 Video Based Man-Machine Interface and the Modicon 984-E685 Programmable Logic Controller work together like a hand-in-glove
  - 51.5. plaintiff designed and engineered the software programming of the Modicon Panelmate 2000 Video Based Man-Machine Interface including:
    - 51.5.1. converting the Programmable Logic Controller software from discrete input / output references to Video Based Man-Machine Interface references
    - 51.5.2. the Dynamometer Test Cell start-up sequence ensured that

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- 51.5.2.1. the Dynamometer Motor-Generator was enabled prior to the  
Dynamometer being turned on
- 51.5.2.2. the Dynamometer Test Cell Ventilation was enabled prior to the  
Dynamometer being turned on
- 51.5.2.3. without getting into all the start-up sequence details it is sufficient to note  
that the PLC software anticipated a specific Dynamometer Test Cell start-up  
sequence
- 51.6. Specified, ordered, and procured major components
  - 51.6.1. Including Modicon Panelmate 2000 and memory back-up module
- 51.7. Project management and project coordination of work activity between General  
Motors Dynamometer Wing salaried personnel, General Motors Emission Wing salaried  
personnel, and software personnel
- 51.8. Provided detailed startup assistance

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**52. Dynamometer Test Cell #06 Legal Issue**

- 52.1. General Motors has a \$20 Million dollar legal issue
- 52.2. nobody in General Motors can figure out the problem
- 52.3. eventually General Motors asks plaintiff to try to solve the problem
  - 52.3.1. there is a General Motors Guidelines that specifies Dynamometer Test Cell Ventilation depression setting of 1.0 inch water
  - 52.3.2. many years ago plaintiff told General Motors that the specification was wrong; the Dynamometer Test Cell Ventilation depression setting should be 0.1 inches of water not 1.0 inches of water
  - 52.3.3. General Motors basically tells plaintiff to shut-up (plaintiff was only a 5<sup>th</sup> or 6<sup>th</sup> level Project Engineer when plaintiff told General Motors that the specification was wrong)
- 52.4. when General Motors changes the Dynamometer Test Cell Ventilation depression setting to plaintiff recommendation of 0.1 inch water the problem is solved
- 52.5. what reward did General Motors give plaintiff for resolving General Motors \$20 Million Dollar Dynamometer Test Cell #06 Legal Issue => basically nothing, not even a thank-you plaintiff
- 52.6. this can be verified by contacting Steve Kaatz or Don Du-zon-berry (General Motors Salaried engineers associated with Dynamometer Test Cell #06 Testing)
- 52.7. some time passes
- 52.8. near the end of plaintiff career with General Motors, plaintiff mentions that plaintiff resolved a \$20 Million Dollar Dynamometer Test Cell #06 Legal Issue for General Motors and that General Motors did not even say thank-you
  - 52.8.1. General Motors now tells plaintiff that the Dynamometer Test Cell #06 Legal Issue was worth \$2 Million dollars not \$20 Million dollars
  - 52.8.2. what financial reward did General Motors give plaintiff for resolving General Motors Dynamometer Test Cell #06 Legal Issue => basically nothing
  - 52.8.3. General Motors tells plaintiff thank-you

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**53. Dynamometer Test Cell #21 Outside Anechoic Chamber**

- 53.1. Dynamometer Test Cell #21 was testing active noise reduction
- 53.2. Dynamometer Test Cell #21 was more limited in scope as compared to Dynamometer Test Cell #07; nevertheless, Dynamometer Test Cell #21 had two unique aspect to its renovation
  - 53.2.1. the test equipment associated with Dynamometer Test Cell #21 active noise reduction testing needed to be outside
- 53.3. sound wave reflections from Engineering Building Emissions Wing which was in close proximity to Engineering Building, Dynamometer Test Cell #21
- 53.4. To help the reader understand what a Hemi-anechoic Chamber is imagine standing alone in an open field in the middle of Kansas or Nebraska; the sounds you make are only reflected by the ground below your feet and no sound reflections in any other direction; a Hemi-anechoic Chamber tries to simulate the experience standing alone in an open field in the middle of Kansas or Nebraska
- 53.5. plaintiff procures the installation of a new Hemi-anechoic Chamber for Dynamometer Test Cell #21
- 53.6. installed by UAW personnel



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**54. Dynamometer Test Cell #15 Renovation**

- 54.1. plaintiff designed, engineered, and incorporated new CPI front-end equipment into Dynamometer Test Cell #15 renovation; see above resume for details
- 54.2. plaintiff designed, engineered, and incorporated new Programmable Logic Controller and PLC Enclosure into Dynamometer Test Cell #15 renovation; see above resume for details
  - 54.2.1. Including interfacing to:
  - 54.2.2. Dynamometer Hard Stop safety circuit
  - 54.2.3. Auxiliary temperature safety meters
  - 54.2.4. Engine and Dynamometer RPM safety meters
  - 54.2.5. Modicon Panelmate 2000 Video Based Man-Machine Interface
  - 54.2.6. Dynamometer Controller
  - 54.2.7. Engine Coolant and Engine Oil Temperature Control System
  - 54.2.8. Supply and Exhaust Fan controls for Dynamometer Test Cell ventilation and pressure control
  - 54.2.9. New Allen – Bradley Motor Control Center
- 54.3. Aaron Trammel fabricated the Fuel System control enclosure that housed the Fuel System control solenoids
- 54.4. plaintiff incorporated new Instrumentation Booms into Dynamometer Test Cell #15 renovation; see above in resume for details
- 54.5. plaintiff designed, engineered, and incorporated new Engine Coolant and Engine Oil Process Control into Dynamometer Test Cell #15 renovation; see resume above for details
- 54.6. plaintiff designed, engineered Dynamometer Test Cell ventilation and pressure control system into Dynamometer Test Cell #15
- 54.7. plaintiff designed, engineered, and incorporated new Druck Pressure Transducers into Dynamometer Test Cell #15 renovation; see resume above for details
- 54.8. New Allen-Bardley Motor Control Center
- 54.9. Specified, ordered, and procured major components associated with:

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- 54.9.1. new CPI Front-end equipment
- 54.9.2. new Programmable Logic Controller hardware
- 54.9.3. new Modicon Panelmate 2000 Video Based Man-Machine Interface
- 54.9.4. new Engine Coolant and Engine Oil Process Control equipment
- 54.9.5. new Honeywell UDC3000 Process Controllers
- 54.9.6. new Allen-Bradley Motor Control Center
- 54.10. Generated the required documentation for the design of:
  - 54.10.1. over 50 pages of documentation for new CPI Front-end equipment
  - 54.10.2. new Programmable Logic Controller hardware
  - 54.10.3. new Programmable Logic Controller software programming
  - 54.10.4. new Modicon Panelmate 2000 Video Based Man-Machine Interface
  - 54.10.5. new Engine Coolant and Engine Oil Process Control equipment
  - 54.10.6. new Honeywell UDC3000 Process Controllers configuration
    - 54.10.6.1. one configuration for Engine Coolant Process Control
    - 54.10.6.2. one configuration for Engine Oil Process Control
    - 54.10.6.3. one configuration for Test Cell Ventilation and pressure control
  - 54.10.7. Supply Fan Variable Frequency Drive configuration
  - 54.10.8. Exhaust Fan Variable Frequency Drive configuration
  - 54.10.9. Allen – Bradley Motor Control Center
- 54.11. Project management and project coordination of work activity between General Motors Dynamometer Wing salaried personnel, General Motors Emission Wing salaried personnel, software personnel and UAW personnel
- 54.12. Provided detailed startup assisted for:
  - 54.12.1. new CPI Front-end equipment
  - 54.12.2. new Programmable Logic Controller hardware
  - 54.12.3. new Programmable Logic Controller software programming
  - 54.12.4. new Modicon Panelmate 2000 Video Based Man-Machine Interface
  - 54.12.5. new Engine Coolant and Engine Oil Process Control equipment
  - 54.12.6. new Honeywell UDC3000 Process Controllers configuration

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- 54.12.6.1. one configuration for Engine Coolant Process Control
- 54.12.6.2. one configuration for Engine Oil Process Control
- 54.12.7. Supply Fan Variable Frequency Drive configuration
- 54.12.8. Exhaust Fan Variable Frequency Drive configuration
- 54.12.9. Allen – Bradley Motor Control Center
- 54.13. plaintiff reward for renovating Dynamometer Test Cell #15 => Basically nothing

**55. New Motor Control Centers**

- 55.1. Prior to plaintiff, a Dynamometer Test Cell renovation basically consisted of updating one piece of equipment (like a new exhaust fan), and maybe a fresh coat of paint. Since Dynamometer Test Cell engineers and managers would come-and-go on a steady basis (Phil Mohan, Aaron Shin, Jim K-hill, Dave Thacher, Clark Bell, Steve Kaatz) after awhile the Dynamometer Test Cells were becoming a crows nest of one-of-a-kind equipment
- 55.2. plaintiff takes no credit for Cell #13 initial Motor Control Center; this was a piece of extra equipment from the Dynamometer Wing blend-house renovation project
- 55.3. after Dynamometer Test Cell #13 plaintiff continuously improved Dynamometer Test Cell renovations projects
- 55.4. plaintiff designed and specified all new Allen – Bradley Motor Control Centers for Dynamometer Wing Test Cells
- 55.5. initially Dynamometer Test Cell #03 had an existing Motor Control Center, but this Motor Control Center was replaced with a Allen – Bradley Motor Control Center
- 55.6. new Allen – Bradley Motor Control Centers can be verified by contacting Steve Bull at McNaughton-McKay Electric Company Madison Heights, Michigan, the supplier of the new Allen-Bradley Motor Control Centers

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**56. Dynamometer Test Cell #08 Renovation**

- 56.1. plaintiff designed, engineered, and incorporated new CPI front-end equipment into Dynamometer Test Cell #08 renovation; see resume above for details
- 56.2. plaintiff designed, engineered, and incorporated new Programmable Logic Controller and PLC Enclosure into Dynamometer Test Cell #08 renovation; see resume above for details
  - 56.2.1. Including interfacing to:
  - 56.2.2. Dynamometer Hard Stop safety circuit
  - 56.2.3. Auxiliary temperature safety meters
  - 56.2.4. Engine and Dynamometer RPM safety meters
  - 56.2.5. Modicon Panelmate 2000 Video Based Man-Machine Interface
  - 56.2.6. Dynamometer Controller
  - 56.2.7. Engine Coolant and Engine Oil Temperature Control System
  - 56.2.8. Supply and Exhaust Fan controls for Dynamometer Test Cell ventilation and pressure control
  - 56.2.9. New Allen – Bradley Motor Control Center
- 56.3. Aaron Trammel fabricated the Fuel System control enclosure that housed the Fuel System control solenoids
- 56.4. plaintiff incorporated new Instrumentation Booms into Dynamometer Test Cell #08 renovation; see resume above for details
- 56.5. plaintiff designed, engineered, and incorporated new Engine Coolant and Engine Oil Process Control into Dynamometer Test Cell #08 renovation; see resume above for details
- 56.6. plaintiff designed, engineered Dynamometer Test Cell ventilation and pressure control system into Dynamometer Test Cell #08
- 56.7. plaintiff designed, engineered, and incorporated new Druck Pressure Transducers into Dynamometer Test Cell #08 renovation; see resume above for details
- 56.8. New Allen-Bardley Motor Control Center
- 56.9. Specified, ordered, and procured major components associated with:



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- 56.9.1. new CPI Front-end equipment
- 56.9.2. new Programmable Logic Controller hardware
- 56.9.3. new Modicon Panelmate 2000 Video Based Man-Machine Interface
- 56.9.4. new Engine Coolant and Engine Oil Process Control equipment
- 56.9.5. new Honeywell UDC3000 Process Controllers
- 56.9.6. new Allen-Bradley Motor Control Center
- 56.10. Generated the required documentation for the design of:
  - 56.10.1. over 50 pages of documentation for new CPI Front-end equipment
  - 56.10.2. new Programmable Logic Controller hardware
  - 56.10.3. new Programmable Logic Controller software programming
  - 56.10.4. new Modicon Panelmate 2000 Video Based Man-Machine Interface
  - 56.10.5. new Engine Coolant and Engine Oil Process Control equipment
  - 56.10.6. new Honeywell UDC3000 Process Controllers configuration
    - 56.10.6.1. one configuration for Engine Coolant Process Control
    - 56.10.6.2. one configuration for Engine Oil Process Control
    - 56.10.6.3. one configuration for Test Cell Ventilation and pressure control
  - 56.10.7. Supply Fan Variable Frequency Drive configuration
  - 56.10.8. Exhaust Fan Variable Frequency Drive configuration
  - 56.10.9. Allen – Bradley Motor Control Center
- 56.11. Project management and project coordination of work activity between General Motors Dynamometer Wing salaried personnel, General Motors Emission Wing salaried personnel, software personnel and UAW personnel
- 56.12. Provided detailed startup assisted for:
  - 56.12.1. new CPI Front-end equipment
  - 56.12.2. new Programmable Logic Controller hardware
  - 56.12.3. new Programmable Logic Controller software programming
  - 56.12.4. new Modicon Panelmate 2000 Video Based Man-Machine Interface
  - 56.12.5. new Engine Coolant and Engine Oil Process Control equipment
  - 56.12.6. new Honeywell UDC3000 Process Controllers configuration

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- 56.12.6.1. one configuration for Engine Coolant Process Control
- 56.12.6.2. one configuration for Engine Oil Process Control
- 56.12.7. Supply Fan Variable Frequency Drive configuration
- 56.12.8. Exhaust Fan Variable Frequency Drive configuration
- 56.12.9. Allen – Bradley Motor Control Center
- 56.13. plaintiff reward for renovating Dynamometer Test Cell #08 => Basically nothing
- 57. Dynamometer Test Cell Ventilation System converted to 24/7 operation**
  - 57.1. when plaintiff designed, engineered Dynamometer Test Cell #13 renovation, General Motors used Dynamometer Test Cell ventilation and pressure control only when the Dynamometer Test Cell had an engine-under-test
  - 57.2. when no engine was being tested, a separate secondary Heating and Ventilation keep a minimum amount of air induced into the Dynamometer Test Cell for human comfort
  - 57.3. because gasoline and other fuels were used in a Dynamometer Test Cell some people rated the Dynamometer Test Cell Class 1, Division 1, Group D (hazardous) requirements for electrical equipment
  - 57.4. converting Dynamometer Test Cell Ventilation System to 24 hours / 7 days a week operation the rating of the Dynamometer Test Cell could be reduced to non-hazardous requirements for electrical equipment
  - 57.5. remember the problem in Dynamometer Test Cell #06 with General Motors maintaining the Dynamometer Test Cell Ventilation depression
  - 57.6. there is also the concern of minimizing Heating and Ventilation costs
  - 57.7. plaintiff redesigned the Dynamometer Test Cell Ventilation System controls to address the above concerns without adding any new major equipment
  - 57.8. plaintiff reward for renovating Dynamometer Test Cell Ventilation System converted to 24 / 7 operation => Basically nothing

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**58. Replacement of (4) Aux. Temperature Safety Meter with Modicon Analog Input Module**

58.1. with the renovation of Dynamometer Test Cells with Programmable Logic Controllers and the continuously improved of using Modicon Panelmate 2000 Video Based Man-Machine Interface more enhanced improvements are possible

58.1.1. remember the Modicon Panelmate 2000 communicate with the Programmable Logic Controller via serial communication

58.1.2. plaintiff replace the (4) Auxiliary temperature safety meters with a Modicon Analog Input Module

58.1.3. less equipment to procure and stock

58.1.4. less custom panels to fabricate

58.1.5. greater flexibility for additional enhancements

58.1.6. Aux. Temperature readings could be displayed directly on the Modicon Panelmate 2000 display

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**59. Conditioned Air Systems**

- 59.1. the Condition Air System project is another example of plaintiff simultaneously designing, engineering, and / or project managing other Dynamometer Test Cell projects simultaneously with Dynamometer Test Cell renovations
- 59.2. plaintiff was responsible for the design, engineering, and project management for seven Condition Air System
- 59.3. plaintiff wrote the specifications for procurement of seven Condition Air System
- 59.4. some (not all) of the Condition Air Systems were to be located inside the Dynamometer Wing Attic exposed to extreme Summer temperature conditions (greater than 104 Degrees F)
- 59.5. General Motors specified Condition Air System temperature, humidity, and Barometric Pressure requirements
- 59.6. plaintiff provided detailed project management leadership working with the potential Condition Air System suppliers
- 59.7. plaintiff improved the design of the Condition Air System; thereby, the final construction installation costs were less than the original accepted contract price
- 59.8. Project management and project coordination of work activity between General Motors Dynamometer Wing salaried personnel, Condition Air System supplier, and construction contractor
- 59.9. Provided detailed startup assisted as needed
- 59.10. General Motors selected Environmental Tectonics Corporation, Southampton, PA 18966; plaintiff preference was to go with the other suppliers finalist located in California, USA
- 59.11. plaintiff reward for the Natural Gas compressor project => basically nothing



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**60. Dynamometer Wing Renovation – Project Management**

- 60.1. plaintiff used Timeline Project Management Software for tracking Dynamometer Test Cell Renovation work activity
- 60.2. plaintiff designed the Timeline flowchart for both the UAW and GM salary personal work activity (to verify Bob Welsh; plaintiff knew Bob Welsh as the highest ranking UAW representative in GM Technical Center, Engineering Building, Warren, Michigan from approximately CY1989 to CY1995)
  - 60.2.1. plaintiff updated the Timeline flowchart as needed
  - 60.2.2. plaintiff distributed updated Timeline flowcharts to the appropriate UAW and GM salary personal
- 60.3. plaintiff generated an appropriation for the renovation of 15 Dynamometer Test Cells
- 60.4. plaintiff procured and approved major components associated with Dynamometer Test Cell renovations
- 60.5. plaintiff directed General Motors Salary personnel in starting-up Dynamometer Test Cell renovations
- 60.6. Documentation of Dynamometer Wing Renovation project activity including
  - 60.6.1. major equipment purchases
  - 60.6.2. CPI front-end equipment interfacing wire listings
  - 60.6.3. PLC enclosure hardware drawings
  - 60.6.4. PLC software program documentation
  - 60.6.5. Modicon Panelmate 2000 Man-Machine interface documentation
  - 60.6.6. UDC 3000 Process Controller Configuration documentation
    - 60.6.6.1. for Engine Coolant Temperature control
    - 60.6.6.2. for Engine Oil Temperature control
    - 60.6.6.3. for Dynamometer Test Cell Ventilation control
  - 60.6.7. Documenting capital equipment purchase by tagging capital equipment with General Motors Property tags; (this can be verified by contacting Andy Vir-ros-tek)

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**61. Project Management / Leadership – Unique solutions**

- 61.1. Programmable Logic Controllers – integrated into Emissions Analysis Systems; (see resume above for details); Don Nagy of General Motors Milford Proving Grounds specifically stated that Programmable Logic Controllers has been tried by General Motors before and cannot be made to work for Emission Analysis Systems applications
- 61.2. DSP Combustion Analysis System – Several years later; (see resume above for details); General Motors Corporation and DSP Technology had a problem with the DSP Combustion Analysis Systems that General Motors Corporation could not solve nor could DSP Technology solve
- 61.3. Dynamometer Test Cell #13 Renovation; (see resume above for details); the first modern, integrated Dynamometer Test Cell renovation at the General Motors Technical Center; completed in CY1990
- 61.4. Dynamometer Test Cell #06 Legal Issue; (see resume above for details); General Motors has a \$20 Million dollar legal issue and nobody in General Motors can figure out the problem; eventually, General Motors asks plaintiff to try to solve the problem
- 61.5. New Dynamometer Wing Ground Wire; (see resume above for details); the Engineering Building Dynamometer Wing electrical grounding was a crows nest of electrical grounding schemes

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**62. Project Management / Leadership – Major Accomplishments for which plaintiff did not receive a bonus**

- 62.1. Emission Wing Renovation – Design Coordination; (see above resume for details)
- 62.2. Emissions Wing Renovation – Project Management; (see above resume for details)
- 62.3. Dynamometer Test Cell #13 Renovation; (see above resume for details)
- 62.4. Dynamometer Test Cell #07 Renovation with New Hemi-anechoic Chamber; (see above resume for details)
- 62.5. Dynamometer Test Cell #11 Renovation; (see above resume for details)
- 62.6. Dynamometer Test Cell #15 Renovation; (see above resume for details)
- 62.7. Dynamometer Test Cell #08 Renovation; (see above resume for details)
- 62.8. Integration of New Programmable Logic Controller (PLC) and Modicon Panelmate 2000 Video Based Man-Machine Interface
- 62.9. plaintiff took the first modern, integrated Dynamometer Test Cell renovation at the General Motors Technical Center and advanced it to the next higher level

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**63. Project Management – For all practical purpose plaintiff ran the Emissions Wing Renovation and Dynamometer Wing Renovation**

63.1. plaintiff did not revive or ask approval from Ward Wiers on a daily basis, weekly basis, or monthly basis

63.1.1. if Ward Wiers had been in a hospital, plaintiff would not have noticed a significant absence during the day-to-day Project Management of the Emissions Wing Renovation

63.2. plaintiff did not revive or ask approval from Dennis Wiese on a daily basis, weekly basis, or monthly basis

63.2.1. if Dennis Wiese had been in a hospital, plaintiff would not have noticed a significant absence during the day-to-day Project Management of the Emissions Wing Renovation

63.3. plaintiff did not revive or ask approval from Jerry Fairbanks on a daily basis, weekly basis, or monthly basis

63.3.1. if Jerry Fairbanks had been in a hospital, plaintiff would not have noticed a significant absence during the day-to-day Project Management of the Dynamometer Wing Renovation

63.4. plaintiff did not revive or ask approval from Jim Thorsen on a daily basis, weekly basis, or monthly basis

63.4.1. if Jim Thorsen had been in a hospital, plaintiff would not have noticed a significant absence during the day-to-day Project Management of the Dynamometer Wing Renovation



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**64. Earned the monetary compensation of 3X, 4X, 5X, 6X, 7X, 8X, or 9X his salary compensation**

64.1. one Instrumentation engineer

- 64.1.1. Instrumentation Console and Custom Enclosure
- 64.1.2. Emissions Test Site Instrumentation Patch Panel
- 64.1.3. 12-Channel Strip Chart Recorder and Custom Enclosure
- 64.1.4. Druck Pressure Transducers
- 64.1.5. New CPI Front-end Equipment

64.2. one Electrical engineer

- 64.2.1. Programmable Logic Controller
- 64.2.2. Overhead Door Logic Controls
- 64.2.3. New Dynamometer Ground Wire
- 64.2.4. Modicon Panelmate 2000 Video Based Man-Machine Interface
- 64.2.5. New Motor Control Centers
- 64.2.6. the reader has to remember that in the late-1980's a Personal Computer might only have 640 to 1,024 kilobytes of memory ( over 1000 times smaller than modern Personal Computers); therefore, each major application like the Programmable Logic Controllers might have its own stand-alone programming device

64.3. one Process Controls engineer

- 64.3.1. Engine Coolant and Engine Oil Process Control
- 64.3.2. Dynamometer Test Cell Supply Fan and Exhaust Fan Ventilation Pressure control
- 64.3.3. Dynamometer Test Cell #06 Legal Issue
- 64.3.4. Dynamometer Test Cell Ventilation System converted to 24/7 operation
- 64.3.5. Replacement of (4) Aux. Temperature Safety Meter with Modicon Analog Input
- 64.3.6. the reader has to remember that in the late-1980's the modern 3 GHz Personal Computer with 2 Gigabyte plus of memory did not exist; therefore, each engineering discipline would have been assigned to different individuals

64.4. one Mechanical engineer

- 64.4.1. Tylan Mass Flow Controllers

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- 64.4.2. Sample Conditioning Unit
- 64.4.3. Overhead Track System
- 64.4.4. Fuel Meter Calibration Cart
- 64.4.5. Fuel Injector Test Stand renovation
- 64.4.6. New Instrumentation Booms
- 64.4.7. Natural Gas Compressor
- 64.4.8. New Exhaust Fans
- 64.4.9. Conditioned Air Systems
- 64.5. one Project Manager
  - 64.5.1. Emissions Wing Renovation – Design Coordination and Project Management
  - 64.5.2. Dynamometer Test Cell #13, #03, #07, #06, #11, #15, #08, and Chassis  
Dynamometer Renovation
- 64.6. one AutoCAD and one technical designer to generate the documentation
  - 64.6.1. AutoCAD Drawings
  - 64.6.2. over 50 pages of documentation for new CPI Front-end equipment
  - 64.6.3. new Programmable Logic Controller hardware documentation
  - 64.6.4. new Programmable Logic Controller software documentation
  - 64.6.5. new Modicon Panelmate 2000 Video Based Man-Machine Interface  
documentation
  - 64.6.6. new Engine Coolant and Engine Oil Process Control equipment documentation
  - 64.6.7. new Honeywell UDC3000 Process Controllers configuration documentation
    - 64.6.7.1. one configuration for Engine Coolant Process Control
    - 64.6.7.2. one configuration for Engine Oil Process Control
    - 64.6.7.3. one configuration for Test Cell Ventilation and pressure control
  - 64.6.8. Supply Fan Variable Frequency Drive configuration
  - 64.6.9. Exhaust Fan Variable Frequency Drive configuration
  - 64.6.10. Allen – Bradley Motor Control Center
- 64.7. one secretary to copy and distribute the documentation
  - 64.7.1. over 50 pages of documentation for new CPI Front-end equipment